

客戶名稱 Customer: 研揚科技股份有限公司

飛偉料號

FW P/N: FWAA-1070

客户料號

Cus. P/N: 1701100180

規格敘述

DESCRIPTION: COM CABLE 150mm

審 核	業 務	品 保	エ 程
Approved By	Sales Dept	QA Dept	Engineering Dept
王俊偉	張全生	劉江華	楊仁貴

客户簽章

Customer Signature:

審 核	核 對	檢 驗
Approved By	Checked By	Tested By



# RoHS Compliant

Pin對照表

А	1	2	3	4	5	6	7	8	9
В	10	9	8	7	6	5	4	3	2
顏色	黑	棕	紅	橙	世田	綠	藍	紫	白



5	套管:Ф1.0*L=10mm 黑色 厚壁	9	pcs	WORE或同級品
4	DB頭:9P 公頭 後鉚螺母 二排 焊接式 黑膠芯	1	pcs	超端或同級品
3	TER:11002TOP-2E	9	pcs	JCTC或同級品
2	HSG:11002H00-10P	1	pcs	JCTC或同級品
1	線材:UL1571#28 OD=0.8 黑;棕;紅:橙;黃:綠;藍;紫;白各1 L=155*2.0T*1.6	共9	pcs	瑞興或同級品
NO	品名規格	數量	單位	生產廠商

客户工程師	Jimmy								
版次	變更內容	變更日期							
А	新發行	2017/09/06							
В	修改客户料號	2017/09/12							
С	修改線長180>150mm	2017/11/03							
D	修改DB頭:9P為焊接式	2020/01/06							
	飛 偉 科 技 有 限 公 司 TEL:02-2231-1313 FLYINGWAY TECH CO., LTD FAX:02-2231-1020 E-MAIL:chino@flyingwaytech.com.tw								
TITLE: CO	M CABLE 150mm								
FW P/N: FV	FW P/N: FWAA-1070								
CUS. P/N: 1701100180									
REV: D	<sup>DWG BY:</sup> Silvia <sup>CH</sup>	ECKED BY: Chino DATE: 2020/01/06							

### **久** UL 1571 HOOK-UP WIRE 80℃ 30V 環保 SR-PVC 電子線

UL Subject 758 说明:

●導體使用單條或絞線最小至 50AWG 裸鋼或鍍錫銅

- ●環保 SR-PVC 絕緣
- ●額定溫度:80℃,額定電壓:30Volts
- ●可通過ULVW-1 垂直型耐燃測試。

#### **Product Description:**

• Tinned, annealed, attended or solid copper conductor, MIN,50AWG

- •Lead FreeSR- PVC insulation.
- •Rated temperature: 80°C,Rated voltage:30volts.
- •Uniform thickness of wire to ensure easy stripping and cutting
- Passes UL VW-1 vertical flame test.

#### 構造及電氣性能

stucture & electric properties(UL STANDARD 758:外徑 0.70mm 以下不印字)



	額	定	導	慸	絕緣	相對		最大導體	最小絕緣	絕緣耐這
TIT	Ran			ductor	Insulat		公差值	阻抗	阻抗	壓(VAC/min)
UL 1571	溫度 Temp ℃	電 壓 Voltage V	線號 AWG	構成 NO./mm	厚度 Thickness mm	外徑 O.D mm	Tolerance Mm	Maximum Conductor Resistance Ω/km	Minimum. Insulation Resistance MΩ/km	Insulation Potential Strength
•			34	7/0.060	0.20	0.60		728		
			<u>3</u> 2	7/0.080	0.20	0.65		703	· .	
多芯線 Stranded	•		30	7/0.100	0.20	0.70		397		
and 線			28	7/0.127	0.20	0.80		248	5.	: 4
g			26	7/0.160	0.20	0.90		152		
5			24	11/0.160	0.20	1.05		88.6		4
			22	17/0.160	0.20	1.20		62.5		
		1	20	21/0.180	0.20	1.50	τ.	39.5		
	80°C	30V	34	7/0.060	0.20	0.60	±0.05	728	.15	500
			32	7/0.080	0.20	0.65		703		•
先			30	7/0.100	0.20	0.70	τ.	397		
(ATC) 先絞後鎖			28	7/0.127	0.20	0.80		248		
ご飯			26	7/0.160	0.20	0.90		152		
			24	7/0.200	0.20	1.05		88.6		
5			30	1/0.254	0.20	0.65		377	1	×
単 (TA)			28	1/0.320	0.20	0.75		245		
<ul><li>○ 線</li></ul>			26	1/0.404	Ó.20	0.85		155		

應用:

- ●電子設備二次迴路中內部速接用線 Applications:
- Internal wiring in electronic equipments

UL FILE NO:E108485

# 3

### 瑞興電線電纜制品廠

REI HSING ELECTRIC WIRE AND CABLE CO., LTD.

### 承認書 SPECIFICATION

	型號 STYL	Æ					UL	1571			
額定溫度/電壓 RATING TEMP./VOLT.						80°C	/30V				
11	線號 SIZE		AWG	34	32	30	28	26	24	22	20
	芯數 NUMB	ER	NO.	7	7	7	7	7	11	17	21
導體	銅線直徑 DIAM	IETER	MM	0.060	0.080	0.100	0.127	0.160	0.160	0.160	0180
導體 CONDUCTOR	最小銅線直徑 MIN.DIAMET		MM	0.054	0.074	0.090	0.117	0.150	0.150	0.150	0.170
DUC	導體截面積 CROSS SEC	AVG.	СМ	39.7	64	100	159	253	404	640	1020
FOR	AREA OF COND	MIN.	CIVI	35.1	62.7	98	156	248	392	621	989
	綾距 LAY OF BU	NCH	INCH	0.40	0.40	0.40	0.50	0.60	0.70	0.80	1.25
	最大電阻 MAX.RESI	STANCE	$\Omega/KM$	728	703	397	248	152	88.6	62.5	39.5
絕	完成外徑 O.D. (±	:0.10)	MM	0.60	0.65	0.70	0.80	0.90	1.05	1.20	1.50
縁體	絕緣體厚度	AVG	MM				0.	20			<
USN	INSULATION THICKNESS	MIN	IVI IVI				0.	15			
絕緣體 INSULATION	外被厚度 JACKET	AVG	MM	/							
Ň	THICKNESS	MIN	IVIIVI	ſ							
最小絕緣 INSULA	ま電阻 TION ESISTANCE		$M\Omega/KM$	15							
	BY SPARK TEST		KV				2KV/0	.15sec			
最小伸長	基率 ELONGATION		%				100	)%			
TENSIL	最小抗張強度 STRENGTH		PSI				15	00			
最小老化	2後伸長率 ER AGING)		%			OF	UNAGEE	65			
	送後抗張強度 TEN.ST.(A	FTER	%			OF	UNAGEE	<b>)</b> 70	-T		
	邊溫度/條件 AGING TE	MP./TIMI	E	113°C/168HRS							
耐燃燒試	耐燃燒試驗 FIAME TEST						VW-	1			
高溫纏繞試驗 HEAT SHOCK TEST			80°C/1HR 1.60MM MANDREL								
低溫纏繞	試驗 COLD BEND TE	EST		-10°C/1HR 3.2MM MANDREL							
耐電壓試 NSULAT	驗 I ION POTENTIALST						500VA	C/min			

ISSUED	1997-01-17	APPROVED	CHECKED	PREPARED
REVISION		洪夹	李荣 天印	劉安輝

2600 N.W. Lako Road Camas, WA 98607–8542 United States Country Code ( (360) 817–5500 FAX No. (360) 817–6000 http://www.ul.com

### Underwriters aboratories Inc.@

Vol. 2

Issued: 01-17-97 Revised: 5-9-01

FOLLOW-UP SERVICE PROCEDURE

PONENT - APPLIANCE WIRING MATERIAL (AVLV2, AVLV8)

Manufacturer: (342072-001)

File E108485

REI HSING WIRE & CABLE CO LTD TSENG TEN INDUSTRIAL PARK CHEN KOU CHANG AN TOWN DONGGUAN GUANGDONG CHINA

Applicant: (559504-001)

REI HSING WIRE CO LTD 56-5 JIUN-ING ST SHUH-LIN CITY TAIPEI HSIEN TAIWAN

Recognized Company: (559504-001):

SAME AS APPLICANT

This Procedur authorizes the above Manufacturer to use the marking specified by Underwriters 1 iboratories Inc. only on products covered by this Procedure, in accordance with the applicable Follow-Up Service Agreement.

The Prescribed Mark or Marking shall be used only at the above manufacturing location on such produes which comply with this Procedure and any other applicable

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UNDERWRITERS LABORATORIES INC.

J. J. Ritchie Vice President I H H Laboratory Management and Operations-prolit organization

dedicated to public safety and committed to quality service File E108485

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Issued: 1997-01-17 Revised: 2007-06-19

TABLE OF AUTHORIZED STYLES SINGLE-CONDUCTOR THERMOPLASTIC INSULATED WIRE

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F	1011	1997-06-04		1429	2004-11-24	F	1789	2004-11-24		
F	1013	1997-06-04	F	1430	1999-04-29	F	10064	2003-12-08		
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F	1028	1997-06-04	F	1497	1997-06-04		10109	2004-05-04	1.55	
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	1061	1997-01-17		1516	2004-05-04		10362	2003-12-08		
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	1198	2004-05-04	F	1581	2001-05-09					
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S.	1227	2003-12-08		1617	1997-01-17			_		
F	1283	2003-02-27		1618	2003-02-27					
100	1285	2003-01-08		1672	2003-02-27					
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F	1331	2003-12-08		1709	2003-12-08			09-3-19		
F	1332	2003-12-08		1710	2003-12-08		一發	行章		
- <u></u>	_									





Report No. A2190175998101034

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name Part No. Client Reference Informatio	BROWN PVC LF INSULATED WIRE UL1015 LF WIRE n UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,
	1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429, 1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date Testing Period	Jul. 15, 2019 Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).

**Test Result(s)** Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager ting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



**Report No.** A2190175998101034

**Test Method** 

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Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS





**Report No.** A2190175998101034

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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Report No. A2190175998101034

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	96 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description Brown wire jacket

### Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

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#### Report No. A2190175998101034

Test Process

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



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#### **Report No.** A2190175998101034

Photo(s) of the sample(s)



#### \*\*\* End of report \*\*\*

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
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Report No. A2190175998101031

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	PURPLE PVC LF INSULATED WIRE
Part No. Client Reference Informatio	UL1015 LF WIRE m UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500, 1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429, 1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jul. 15, 2019
Testing Period	Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager Sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101031

**Test Method** 

Page 2 of 7

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS





**Report No.** A2190175998101031

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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Test Result(s)		
Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	84 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description Purple wire jacket

### Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million



#### Report No. A2190175998101031

Test Process

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



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#### **Report No.** A2190175998101031

### Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

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**Report No.** A2190175998101028

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	GREEN PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE
Client Reference Informatio	n UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500, 1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429, 1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jul. 15, 2019
Testing Period	Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager ting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



**Report No.** A2190175998101028

**Test Method** 

Page 2 of 7

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS





**Report No.** A2190175998101028

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg



**Report No.** A2190175998101028

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	350 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description Green wire jacket

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million Page 4 of 7



#### **Report No.** A2190175998101028

**Test Process** 

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



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#### **Report No.** A2190175998101028

### Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Report No. A2190175998101025

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	BLUE PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE
Client Reference Informatio	n UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500, 1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429, 1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jul. 15, 2019
Testing Period	Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager ting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



**Report No.** A2190175998101025

Page 2 of 7

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS





**Report No.** A2190175998101025

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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Report No. A2190175998101025

Page 4 of 7

Test Result(s)					
Tested Item(s)	Result	MDL			
Phthalates (DBP, BBP, DEHP, DIBP)					
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg			
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg			
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	102 mg/kg	50 mg/kg			
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg			
Tested Item(s)	Result	MDL			
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg			

Sample/Part Description Blue wire jacket

### Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million



#### **Report No.** A2190175998101025

**Test Process** 

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



This Contraction

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#### **Report No.** A2190175998101025

Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Report No. A2190175998101019

ApplicantREIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTDAddressNO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY<br/>GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name Part No. Client Reference Informatio	YELLOW PVC LF INSULATED WIRE UL1015 LF WIRE n UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500, 1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,
	1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jul. 15, 2019
Testing Period	Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



**Report No.** A2190175998101019

**Test Method** 

Page 2 of 7

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS




**Report No.** A2190175998101019

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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**Report No.** A2190175998101019

Page 4 of 7

Test Result(s)		
Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description Yellow wire jacket

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million



#### **Report No.** A2190175998101019

Test Process

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



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#### **Report No.** A2190175998101019

Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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Page 7 of 7





Report No. A2190175998101013

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	RED PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE
Client Reference Informatio	n UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500, 1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429, 1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jul. 15, 2019
Testing Period	Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101013

**Test Method** 

Page 2 of 7

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS





Report No. A2190175998101013

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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Report No. A2190175998101013

Page 4 of 7

Test Result(s)		
Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	101 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description Red wire jacket

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million



#### Report No. A2190175998101013

**Test Process** 

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



Page 5 of 7







#### **Report No.** A2190175998101013

Photo(s) of the sample(s)



#### \*\*\* End of report \*\*\*

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
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Report No. A2190175998101010

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	BLACK PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE
Client Reference Informatio	n UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500, 1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429, 1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jul. 15, 2019
Testing Period	Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager sting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101010

**Test Method** 

Page 2 of 7

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS





**Report No.** A2190175998101010

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Page 3 of 7





Report No. A2190175998101010

Page 4 of 7

Test Result(s)		
Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	138 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description Black wire jacket

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million



#### Report No. A2190175998101010

**Test Process** 

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



Page 5 of 7







#### **Report No.** A2190175998101010

Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

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Page 7 of 7





Report No. A2190175998101004

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	ORANGE PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE
Client Reference Informatio	n UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500, 1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429, 1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697, 2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070, 10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K, AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV), OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jul. 15, 2019
Testing Period	Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager tung International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



**Report No.** A2190175998101004

Page 2 of 7

Test Method		
Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS





**Report No.** A2190175998101004

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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**Report No.** A2190175998101004

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	88 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description Orange wire jacket

#### Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

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#### Report No. A2190175998101004

**Test Process** 

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



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#### **Report No.** A2190175998101004

Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

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Report No. A2190175998101001

Applicant REIHSING(DONGGUAN) ELECTRIC WIRE AND CABLE CO.,LTD
Address NO.18 LANYUAN ROAD XINAN VILLAGE CHANGAN TOWN DONGGUAN CITY GUANGDONG CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name	WHITE PVC LF INSULATED WIRE
Part No.	UL1015 LF WIRE
Client Reference Information	n UL1007,1015,1571,1061,1028,1032,1080, 1095,1569,1581,1674,1500,
	1283,1285, 1011,1013,1497,1789,1685,1617,1672,1618,1010,1316,1429,
	1430,1431,3443,3610,2468,2464,2444,20080,2555,2476,2697,
	2733,2562,2096,1533,2547,20005,20276,2854,2851,1185,10070,
	10198,SPT,(H)VSF,(H)VFF,(H)VCTF,(H)VCFK,H05V2-U, H05V2-K,
	AV,AVS,AVSS,CCC60227IEC02(RV)06(RV)08(RV-90)52(RVV)53(RVV),
	OR Other PVC insulated wire
Supplier	Reihsing
Sample Received Date	Jul. 15, 2019
Testing Period	Jul. 15, 2019 to Jul. 18, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP), Hexabromocyclododecane (HBCDD) in the submitted sample(s).
Test Method	Please refer to the following page(s).

**Test Result(s)** Please refer to the following page(s).



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Reviewed by

Tori Xia

Date

Jul. 18, 2019

No. R338854670

Hill Zheng Technical Manager ting International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



Report No. A2190175998101001

**Test Method** 

Page 2 of 7

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
Hexabromocyclododecane (HBCDD)	Refer to US EPA 3540C:1996 & US EPA 8270E:2017	GC-MS





Report No. A2190175998101001

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	N.D.	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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Report No. A2190175998101001

Test Result(s)

Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	92 mg/kg	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg
Tested Item(s)	Result	MDL
Hexabromocyclododecane(HBCDD)	N.D.	5 mg/kg

Sample/Part Description White wire jacket

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million Page 4 of 7



#### Report No. A2190175998101001

Test Process

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



Page 5 of 7







#### **Report No.** A2190175998101001

Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
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Page 7 of 7



No. CANEC1901488301

Date: 30 Jan 2019

Page 1 of 21

#### (SVHC)

SINWA LASER TECHNOLOGY CO., LTD. 50.WU KONG 5 TH RD., WU KU INDUSTRIAL PARK. TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as : INK BLACK FOR WIRE &CABLE PRINTING

SGS Job No. :	CP19-003784 - SZ	
Model No. :	I-PVC-02	
Client Ref. Info. :	I-PE-02;I-TPE-02;I-PP-02; I-PU-02; I-RU-02; I-TPR-02;I-F	PPE-02
Date of Sample Received :	22 Jan 2019	
Testing Period :	22 Jan 2019 - 30 Jan 2019	
Test Requested :	As requested by client, SVHC screening is performed accord (i) One hundred and eighty one (181) substances in the Cau Substances of Very High Concern (SVHC) for authorization European Chemicals Agency (ECHA) on and before Jan 15 Regulation (EC) No 1907/2006 concerning the REACH. (ii) Ten (10) substances in the Candidate List of Substances Concern (SVHC) for authorization published by European C (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907 the REACH. (iii) Six (6) substances in the Candidate List of Substances (SVHC) for authorization published by European Chemicals Jan 15, 2019 regarding Regulation (EC) No 1907/2006 cond	ndidate List of published by 5, 2018 regarding s of Very High Chemicals Agency 7/2006 concerning of Very High Concern s Agency (ECHA) on
Test Results :	Please refer to next page(s).	
Summary :		
According to the specified s	cope and evaluation screening, the test results of SVHC are	PASS

 $\leq 0.1\%$  (w/w) in the submitted sample.



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198 Kezhu Road, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86–20) 82155555 f (86–20) 82075113 www.sgsgroup.com.cn 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC1901488301

Date: 30 Jan 2019

Page 2 of 21

(SVHC)

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu Approved Signatory



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#### Test Report (SVHC)

Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

No. CANEC1901488301

2. REACH obligation:

2.1 Concerning article(s):

#### Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

#### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

#### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Date: 30 Jan 2019


No. CANEC1901488301

Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq$  1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq$  0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1$  % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or

- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

#### **Test Sample :**

#### Sample Description :

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.001	Black liquid	6
SN2	CAN19-014883.004	Black liquid	181
SN3	CAN19-014883.007	Black liquid	10

#### **Test Method :**

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	004 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	007 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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No. CANEC1901488301

# **Test Report** (SVHC)

Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. \* The test result is based on the calculation of selected element(s) and to the worst-case scenario. \*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Managementof-SVHC.aspx

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.

6.  $\triangle$  CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8

7. CAS No. of 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; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.

8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).

9. Results & photo(s) of this report refer to test report CANEC18044466.

10. Results & photo(s) of this report refer to test report CANEC18142276.



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# (SVHC)

### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	004
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	004
1	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	004
I	4	Anthracene	120-12-7	0.050	004
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	004
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	004
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	004
I	8	Cobalt dichloride*	7646-79-9	0.005	004
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	004
I	10	Diarsenic trioxide*	1327-53-3	0.005	004
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	004
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)△	25637-99-4,319 4- 55-6	0.050	004
I	13	Lead hydrogen arsenate*	7784-40-9	0.005	004
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	004
I	15	Triethyl arsenate*	15606-95-8	0.005	004
п	16	2,4-Dinitrotoluene	121-14-2	0.050	004
п	17	Acrylamide	79-06-1	0.050	004
п	18	Anthracene oil**	90640-80-5	0.050	004
Ш	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	004



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# (SVHC)

### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	004
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	004
П	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	004
П	23	Diisobutyl phthalate	84-69-5	0.050	004
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	004
П	25	Lead chromate*	7758-97-6	0.005	004
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	004
П	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	004
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	004
Ш	29	Ammonium dichromate*	7789-09-5	0.005	004
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	004
Ξ	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	004
Ш	32	Potassium chromate*	7789-00-6	0.005	004
Ш	33	Potassium dichromate*	7778-50-9	0.005	004
Ш	34	Sodium chromate*	7775-11-3	0.005	004
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	004
Ш	36	Trichloroethylene	79-01-6	0.050	004
IV	37	2-Ethoxyethanol	110-80-5	0.050	004
IV	38	2-Methoxyethanol	109-86-4	0.050	004



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# Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	004
IV	40	Chromium trioxide*	1333-82-0	0.005	004
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	004
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	004
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	004
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	004
V	45	1,2,3-trichloropropane	96-18-4	0.050	004
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	004
<	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	004
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	004
V	49	2-ethoxyethyl acetate	111-15-9	0.050	004
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	004
<	51	Strontium chromate*	7789-06-2	0.005	004
VI	52	1,2-Dichloroethane	107-06-2	0.050	004
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	004
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	004
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	004
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	004



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### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	004
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	004
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	004
VI	60	Calcium arsenate*	7778-44-1	0.005	004
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	004
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	004
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	004
VI	64	Lead dipicrate*	6477-64-1	0.005	004
VI	65	Lead styphnate*	15245-44-0	0.005	004
VI	66	N,N-dimethylacetamide	127-19-5	0.050	004
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	004
VI	68	Phenolphthalein	77-09-8	0.050	004
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	004
VI	70	Trilead diarsenate*	3687-31-8	0.005	004
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	004
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	004
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	004



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### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	004
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	004
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	004
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	004
VII	78	Diboron trioxide*	1303-86-2	0.005	004
VII	79	Formamide	75-12-7	0.050	004
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	004
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	004
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	004
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	004
VII	84	β-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	0.050	004
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	004
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	004
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	004
VIII	88	1-Bromopropane	106-94-5	0.050	004
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	004
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	004



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No. CANEC1901488301

# (SVHC)

### Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	004
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	004
VIII	93	4-Aminoazobenzene	60-09-3	0.050	004
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	004
VIII	95	4-Nonylphenol, branched and linear	-	0.050	004
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	004
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	004
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	004
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	004
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	004
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	004
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	004
VIII	103	Diethyl sulphate	64-67-5	0.050	004
VIII	104	Diisopentylphthalate	605-50-5	0.050	004
VIII	105	Dimethyl sulphate	77-78-1	0.050	004
VIII	106	Dinoseb	88-85-7	0.050	004
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	004
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	004

Date: 30 Jan 2019

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#### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	004
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	004
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	004
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	Ž	0.050	004
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	004
VIII	114	Lead cyanamidate*	20837-86-9	0.005	004
VIII	115	Lead dinitrate*	10099-74-8	0.005	004
VIII	116	Lead monoxide*	1317-36-8	0.005	004
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	004
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	004
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	004
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	004
VIII	121	Methoxyacetic acid	625-45-6	0.050	004
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	004
VIII	123	N,N-dimethylformamide	68-12-2	0.050	004
VIII	124	N-Methylacetamide	79-16-3	0.050	004
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	004
VIII	126	o-Aminoazotoluene	97-56-3	0.050	004
VIII	127	o-Toluidine	95-53-4	0.050	004



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# (SVHC)

### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	004
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	004
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	004
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	004
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	004
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	004
VIII	134	Tetraethyllead*	78-00-2	0.005	004
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	004
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	004
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	004
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	004
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	004
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	004
IX	141	Cadmium oxide*	1306-19-0	0.005	004
IX	142	Cadmium*	7440-43-9	0.005	004
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	004
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	004
Х	145	Cadmium sulphide*	1306-23-6	0.005	004
х	146	Dihexyl phthalate	84-75-3	0.050	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	004
×	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	004
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	004
X	150	Lead di(acetate)*	301-04-2	0.005	004
X	151	Trixylyl phosphate	25155-23-1	0.050	004
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	004
XI	153	Cadmium chloride*	10108-64-2	0.005	004
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	004
XI	155	Sodium peroxometaborate*	7632-04-4	0.005	004
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	004
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	004
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	004
XII	159	Cadmium fluoride*	7790-79-6	0.005	004
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	004



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Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy I-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	004
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	004
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy I-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy I-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	004
XIV	164	1,3-propanesultone	1120-71-4	0.050	004
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	004
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	004
XIV	167	Nitrobenzene	98-95-3	0.050	004
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	004
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	004
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	004
XVI	171	4-Heptylphenol, branched and linear	-	0.050	004



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#### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	004
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	004
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	- 0.050		004
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	- 0.050		004
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	004
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	004
XVIII	178	Cadmium carbonate*	513-78-0 0.005		004
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	004
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	004
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	004
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	007
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	007
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	007
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	007
XIX	186	Disodium octaborate*	12008-41-2	0.005	007



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## (SVHC)

### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	007
XIX	188	Ethylenediamine	107-15-3	0.050	007
XIX	189	Lead*	7439-92-1	0.005	007
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	007
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050	007
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8	0.050	001
XX	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	001
XX	194	Benzo[k]fluoranthene	207-08-9	0.050	001
XX	195	Fluoranthene	206-44-0	0.050	001
XX	196	Phenanthrene	85-01-8	0.050	001
XX	197	Pyrene	129-00-0	0.050	001



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**ATTACHMENTS** 

### **SVHC Testing Flow Chart**





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Sample photo:





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No. CANEC1910676507

Date: 12 Jun 2019

Page 1 of 6

SINWA LASER TECHNOLOGY CO., LTD

50.WU KONG 5 TH RD, WU KU INDUSTRIAL PARK . TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as : INK WHITE FOR WIRE&CABLE PRINTING

SGS Job No. :	CP19-029729 - SZ
Client Ref. Info. :	I-PVC-01
Date of Sample Received :	05 Jun 2019
Testing Period :	05 Jun 2019 - 12 Jun 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Volet Shi

Violet,Shi Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-106765.002	White liquid

### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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186 Rezru koad, Scellinen Park Glangzhol Economic & leitinoogy Development Using, Glangzhou, China 510663 1 (86-20) 82155555 f (86-20) 82075113 www.sgsgiroup.com.cn 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



Test Report	No. CANEC1910676507		Date: 12 Jun 2019		Page 3 of 6
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

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### **ATTACHMENTS**

### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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Date: 12 Jun 2019

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**ATTACHMENTS** 

Phthalates Testing Flow Chart





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No. CANEC1904032401

Date: 21 Mar 2019

Page 1 of 7

### DONGGUAN LUCKY FLY CONDUCTOR CO., LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : BARE COPPER WIRE

SGS Job No. :	CP19-011773 - GZ
Date of Sample Received :	15 Mar 2019
Testing Period :	15 Mar 2019 - 21 Mar 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Volet Shi

Violet,Shi Approved Signatory



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No. CANEC1904032401

Date: 21 Mar 2019

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-040324.001	Copper colored metal wire

### Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL )

(4) "-" = Not Regulated

### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1904032401		Date: 21 Mar 2019		Page 3 of 7
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

#### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37.25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
  - c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

### **Elementary Analysis**

Test Method : SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>001</u>
Beryllium (Be)	mg/kg	5	ND



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No. CANEC1904032401

### **ATTACHMENTS**

### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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Phthalates Testing Flow Chart





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**Elementary Testing Flow Chart** 





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Sample photo:



SGS authenticate the photo on original report only

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DONGGUAN LUCKY FLY CONDUCTOR CO.,LTD QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : BARE COPPER WIRE, TINNED COPPER WIRE

SGS Job No. :	CP19-011773 - GZ	
Date of Sample Received :	15 Mar 2019	
Testing Period :	15 Mar 2019 - 21 Mar 2019	
Test Requested :	As requested by client, SVHC screening is performed according to: (i) One hundred and ninety seven (197) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH. (ii) Additional One (1) Substances of Very High Concern (SVHC) identified by the notification of WTO on Feb 7, 2019.	
Test Results :	Please refer to next page(s).	
Summary :		
According to the specified scope and evaluation screening, the test results of SVHC are PASS		

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Nobet Shi

 $\leq$  0.1% (w/w) in the submitted sample.

Violet,Shi Approved Signatory



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

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2. REACH obligation:

2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

#### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

#### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq$  1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq$  0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1$  % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or

- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

#### **Test Sample :**

#### Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-040324.003	Copper colored metal wire(a)+silvery plated
		metal wire(b)

#### Test Method :

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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#### Test Result: (Substances in the Candidate List of SVHC)

Bato	h Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

#### Test Result:(Additional SVHC)

Batch	Substance Name	CAS No.	003 Concentration (%)	RL (%)
-	All tested SVHC	-	ND	-



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# **Test Report** (SVHC)

#### Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported.

Please refer to Appendix for the full list of tested SVHC.

2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3.\* The test result is based on the calculation of selected element(s) and to the worst-case scenario.

\*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Managementof-SVHC.aspx

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.

6.  $\triangle$  CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7. 134237-52-8.

7. T CAS No. of 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; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1. 8. § The substance is proposed for the identification as SVHC only where it contains

Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w). 9.Add. = Additional identified SVHC

10. Composite test has been performed in equal proportion for the components/material per client requested. And the result is calculated using the minimum sample weight.



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# Test Report (SVHC)

### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
Ι	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
Ι	4	Anthracene	120-12-7	0.050
Ι	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
Ι	8	Cobalt dichloride*	7646-79-9	0.005
Ι	9	Diarsenic pentaoxide*	1303-28-2	0.005
Ι	10	Diarsenic trioxide*	1327-53-3	0.005
Ι	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) <sup>Δ</sup>	25637-99-4,3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
П	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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# (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
П	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
	29	Ammonium dichromate*	7789-09-5	0.005
Ш	30	Boric acid*	10043-35-3, 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
	32	Potassium chromate*	7789-00-6	0.005
	33	Potassium dichromate*	7778-50-9	0.005
	34	Sodium chromate*	7775-11-3	0.005
	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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(SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050

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Date: 21 Mar 2019

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No. CANEC1904032403

# (SVHC)

**Test Report** 

#### Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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No. CANEC1904032403

# (SVHC)

**Test Report** 

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-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	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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## (SVHC)

### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	*	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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## (SVHC)

### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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## (SVHC)

### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Х	148	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	0.050
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005

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## (SVHC)

Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\ge 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049-39-8, 4149-60-4	0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050

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## (SVHC)

Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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## (SVHC)

Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
xx	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
xx	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
Add.	198	4-tert-butylphenol (PTBP)	98-54-4	0.050

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**ATTACHMENTS** 

## **SVHC Testing Flow Chart**





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Sample photo:



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### DONGGUAN LUCKY FLY CONDUCTOR CO., LTD

QIAO ZI REGION CHANG PING TOWN DONG GUAN CITY GUANG DONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : TINNED COPPER WIRE

SGS Job No. :	CP19-011773 - GZ
Date of Sample Received :	15 Mar 2019
Testing Period :	15 Mar 2019 - 21 Mar 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Volet Shi

Violet,Shi Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-040324.002	Silvery plated metal wire

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL )

(4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19040324	02	Date: 2	1 Mar 2019	Page 3 of 12
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

#### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10  $\mu$ g/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

#### **Elementary Analysis**

Test Method : SGS In-house method (GZTC CHEM-TOP-009-01, with reference to US EPA Method 3050B:1996), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	MDL	<u>002</u>
Beryllium (Be)	mg/kg	5	ND

#### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.



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<u>Test Item(s)</u>	<u>CAS NO</u>	<u>).</u> <u>Unit</u>	MDL	<u>002</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Ac	•	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, A	nthracene,			
Fluoranthene Sum of 18 PAHs	-	mg/kg	-	ND



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#### AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	200	Category	3
Falalleter	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not f category 1 wit foreseeable c skin for longe (long-term skii frequent conta	falling under h ontact to r than 30 s n) or	Materials not falling category 1 or 2 with contact to skin for le (short-term skin con	under foreseeable ss than 30 s
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene, mg/kg	< 1	< 2		< 10	
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50

#### PFOS (Perfluorooctane sulfonates)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctane Sulfonates (PFOS) <sup>^</sup>	-	mg/kg	10	ND

Notes :

(1) ^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide,



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N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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## **ATTACHMENTS**

### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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Phthalates Testing Flow Chart





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PAHs Testing Flow Chart





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## PFOA / PFOS Testing Flow Chart





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**Elementary Testing Flow Chart** 





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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



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# (SVHC)

SINWA LASER TECHNOLOGY CO., LTD. 50.WU KONG 5 TH RD., WU KU INDUSTRIAL PARK. TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as : INK WHITE FOR WIRE &CABLE PRINTING

SGS Job No. :	CP19-003784 - SZ	
Model No. :	I-PVC-01	
Client Ref. Info. :	I-PE-01;I-TPE-01; I-PP-01; I-PU-01; I-RU-01; I-TPR-01;I	-PPE-01
Date of Sample Received :	22 Jan 2019	
Testing Period :	22 Jan 2019 - 30 Jan 2019	
Test Requested :	As requested by client, SVHC screening is performed accord (i) One hundred and eighty one (181) substances in the Cau Substances of Very High Concern (SVHC) for authorization European Chemicals Agency (ECHA) on and before Jan 15 Regulation (EC) No 1907/2006 concerning the REACH. (ii) Ten (10) substances in the Candidate List of Substances Concern (SVHC) for authorization published by European C (ECHA) on Jun 27, 2018 regarding Regulation (EC) No 1907 the REACH. (iii) Six (6) substances in the Candidate List of Substances (SVHC) for authorization published by European Chemicals Jan 15, 2019 regarding Regulation (EC) No 1907/2006 cond	ndidate List of published by 5, 2018 regarding s of Very High Chemicals Agency 7/2006 concerning of Very High Concern s Agency (ECHA) on
Test Results :	Please refer to next page(s).	
Summary :		
According to the specified s	cope and evaluation screening, the test results of SVHC are	PASS

 $\leq 0.1\%$  (w/w) in the submitted sample.



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Date: 30 Jan 2019

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(SVHC)

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

kelly Qu

Kelly Qu Approved Signatory



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#### Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

No. CANEC1901488302

2. REACH obligation:

2.1 Concerning article(s):

#### Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

#### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

#### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Date: 30 Jan 2019



No. CANEC1901488302

Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq$  1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq$  0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1$  % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or

- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

#### **Test Sample :**

#### Sample Description :

Specimen No.	SGS Sample ID	Description	No. of SVHC Tested
SN1	CAN19-014883.002	White liquid	6
SN2	CAN19-014883.005	White liquid	181
SN3	CAN19-014883.008	White liquid	10

#### **Test Method :**

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	005 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-

#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	008 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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No. CANEC1901488302

# Test Report (SVHC)

Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3. \* The test result is based on the calculation of selected element(s) and to the worst-case scenario. \*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Managementof-SVHC.aspx

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the total boron by ICP-OES.

6.  $\triangle$  CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8

7. CAS No. of 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; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.

8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).

9. Results & photo(s) of this report refer to test report CANEC18044466.

10. Results & photo(s) of this report refer to test report CANEC18142276.



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## (SVHC)

### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050	005
Ι	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050	005
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050	005
I	4	Anthracene	120-12-7	0.050	005
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050	005
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050	005
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050	005
I	8	Cobalt dichloride*	7646-79-9	0.005	005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005	005
I	10	Diarsenic trioxide*	1327-53-3	0.005	005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050	005
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)△	25637-99-4,319 4- 55-6	0.050	005
I	13	Lead hydrogen arsenate*	7784-40-9	0.005	005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005	005
I	15	Triethyl arsenate*	15606-95-8	0.005	005
11	16	2,4-Dinitrotoluene	121-14-2	0.050	005
11	17	Acrylamide	79-06-1	0.050	005
11	18	Anthracene oil**	90640-80-5	0.050	005
11	19	Anthracene oil, anthracene paste**	90640-81-6	0.050	005



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#### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050	005
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050	005
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050	005
Π	23	Diisobutyl phthalate	84-69-5	0.050	005
Π	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005	005
II	25	Lead chromate*	7758-97-6	0.005	005
Ι	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005	005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050	005
=	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050	005
III	29	Ammonium dichromate*	7789-09-5	0.005	005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005	005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005	005
III	32	Potassium chromate*	7789-00-6	0.005	005
III	33	Potassium dichromate*	7778-50-9	0.005	005
III	34	Sodium chromate*	7775-11-3	0.005	005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005	005
III	36	Trichloroethylene	79-01-6	0.050	005
IV	37	2-Ethoxyethanol	110-80-5	0.050	005
IV	38	2-Methoxyethanol	109-86-4	0.050	005



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# Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005	005
IV	40	Chromium trioxide*	1333-82-0	0.005	005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005	005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005	005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005	005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005	005
V	45	1,2,3-trichloropropane	96-18-4	0.050	005
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050	005
<	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050	005
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050	005
V	49	2-ethoxyethyl acetate	111-15-9	0.050	005
V	50	Hydrazine	7803-57-8, 302-01-2	0.050	005
<	51	Strontium chromate*	7789-06-2	0.005	005
VI	52	1,2-Dichloroethane	107-06-2	0.050	005
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050	005
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050	005
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050	005
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005	005



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### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VI	57	Arsenic acid*	7778-39-4	0.005	005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050	005
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050	005
VI	60	Calcium arsenate*	7778-44-1	0.005	005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005	005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050	005
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005	005
VI	64	Lead dipicrate*	6477-64-1	0.005	005
VI	65	Lead styphnate*	15245-44-0	0.005	005
VI	66	N,N-dimethylacetamide	127-19-5	0.050	005
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005	005
VI	68	Phenolphthalein	77-09-8	0.050	005
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005	005
VI	70	Trilead diarsenate*	3687-31-8	0.005	005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005	005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cycloh exa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050	005
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-yli dene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050	005



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### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050	005
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050	005
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050	005
VII	77	4,4'-bis(dimethylamino)-4"- (methylamino)trityl alcohol§	561-41-1	0.050	005
VII	78	Diboron trioxide*	1303-86-2	0.005	005
VII	79	Formamide	75-12-7	0.050	005
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005	005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenediani line (Michler's base)	101-61-1	0.050	005
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2 ,4,6(1H,3H,5H)-trione)	2451-62-9	0.050	005
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050	005
VII	84	β-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	0.050	005
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005	005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050	005
VIII	87	1,2-Diethoxyethane	629-14-1	0.050	005
VIII	88	1-Bromopropane	106-94-5	0.050	005
VIII	89	3-Ethyl-2-methyl-2- (3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050	005
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050	005



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#### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050	005
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050	005
VIII	93	4-Aminoazobenzene	60-09-3	0.050	005
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050	005
VIII	95	4-Nonylphenol, branched and linear	-	0.050	005
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050	005
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005	005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050	005
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050	005
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149- 00-3,14166-21- 3	0.050	005
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050	005
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050	005
VIII	103	Diethyl sulphate	64-67-5	0.050	005
VIII	104	Diisopentylphthalate	605-50-5	0.050	005
VIII	105	Dimethyl sulphate	77-78-1	0.050	005
VIII	106	Dinoseb	88-85-7	0.050	005
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005	005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005	005



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#### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	109	Furan	110-00-9	0.050	005
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050	005
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050	005
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	**	0.050	005
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005	005
VIII	114	Lead cyanamidate*	20837-86-9	0.005	005
VIII	115	Lead dinitrate*	10099-74-8	0.005	005
VIII	116	Lead monoxide*	1317-36-8	0.005	005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005	005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005	005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005	005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005	005
VIII	121	Methoxyacetic acid	625-45-6	0.050	005
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050	005
VIII	123	N,N-dimethylformamide	68-12-2	0.050	005
VIII	124	N-Methylacetamide	79-16-3	0.050	005
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050	005
VIII	126	o-Aminoazotoluene	97-56-3	0.050	005
VIII	127	o-Toluidine	95-53-4	0.050	005



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#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050	005
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005	005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005	005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005	005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005	005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005	005
VIII	134	Tetraethyllead*	78-00-2	0.005	005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005	005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050	005
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005	005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005	005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050	005
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050	005
IX	141	Cadmium oxide*	1306-19-0	0.005	005
IX	142	Cadmium*	7440-43-9	0.005	005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050	005
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050	005
Х	145	Cadmium sulphide*	1306-23-6	0.005	005
Х	146	Dihexyl phthalate	84-75-3	0.050	005



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Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
X	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-ami nonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050	005
×	148	Disodium 4-amino-3-[[4'- [(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6- (phenylazo)naphthalene-2,7-disulphonat e (C.I. Direct Black 38)	1937-37-7	0.050	005
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050	005
Х	150	Lead di(acetate)*	301-04-2	0.005	005
Х	151	Trixylyl phosphate	25155-23-1	0.050	005
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050	005
ХІ	153	Cadmium chloride*	10108-64-2	0.005	005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005	005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005	005
XII	156	2- (2H-Benzotriazol-2-yl)-4,6-ditertpentylphe nol (UV-328)	25973-55-1	0.050	005
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050	005
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate; DOTE	15571-58-1	0.050	005
XII	159	Cadmium fluoride*	7790-79-6	0.005	005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005	005



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### (SVHC)

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithi a-4-stannatetradecanoate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octy I-7-oxo-8-oxa-3,5-dithia-4-stannatetradec anoate (reaction mass of DOTE & MOTE)	-	0.050	005
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate	68515-51-5, 68648-93-1	0.050	005
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methy I-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methy I-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050	005
XIV	164	1,3-propanesultone	1120-71-4	0.050	005
XIV	165	2,4-di-tert-butyl-6- (5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050	005
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6- (sec-butyl)phenol (UV-350)	36437-37-3	0.050	005
XIV	167	Nitrobenzene	98-95-3	0.050	005
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1,21049 -39-8,4149-60-4	0.050	005
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050	005
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050	005
XVI	171	4-Heptylphenol, branched and linear	-	0.050	005



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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335- 76-2,3830-45-3	0.050	005
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050	005
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050	005
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecac hloropentacyclo[12.2.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050	005
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050	005
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005	005
XVIII	178	Cadmium carbonate*	513-78-0	0.005	005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005	005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050	005
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050	005
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050	008
XIX	183	Benzo[ghi]perylene	191-24-2	0.050	008
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050	008
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050	008
XIX	186	Disodium octaborate*	12008-41-2	0.005	008



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### (SVHC)

#### Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)	Sample ID
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050	008
XIX	188	Ethylenediamine	107-15-3	0.050	008
XIX	189	Lead*	7439-92-1	0.005	008
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050	008
XIX	191	Terphenyl hydrogenated	61788-32-7 0.050		008
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2- one (3-benzylidene camphor)	15087-24-8	0.050	002
ХХ	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050	002
ХХ	194	Benzo[k]fluoranthene	207-08-9	0.050	002
ХХ	195	Fluoranthene	206-44-0	0.050	002
ХХ	196	Phenanthrene	85-01-8	0.050	002
ХХ	197	Pyrene	129-00-0	0.050	002



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**Test Report** (SVHC)

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Date: 30 Jan 2019

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**ATTACHMENTS** 

#### **SVHC Testing Flow Chart**





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Sample photo:





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No. CANEC1910676519

Date: 21 Jun 2019

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SINWA LASER TECHNOLOGY CO., LTD

50.WU KONG 5 TH RD, WU KU INDUSTRIAL PARK .TAIPEI TAIWAN

#### This report is to supersede test report CANEC1910676513

The following sample(s) was/were submitted and identified on behalf of the clients as : INK BLACK FOR WIRE&CABLE PRINTING

SGS Job No. :	CP19-029729 - SZ
Client Ref. Info. :	I-PVC-02
Date of Sample Received :	05 Jun 2019
Testing Period :	05 Jun 2019 - 12 Jun 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry L

Merry Lv Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-106765.003	Black liquid

#### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1910676519		Date: 2	21 Jun 2019	Page 3 of 6
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

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No. CANEC1910676519

#### **ATTACHMENTS**

#### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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No. CANEC1910676519

Date: 21 Jun 2019

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**ATTACHMENTS** 

Phthalates Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

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A 1	B	С	D		E			F	/
环保物料			Specifications:			Dimensio	nal Order	ina Info	rmation: 1
			Rated Voltage		C	Circuits		nension	
0.250		– Mark	Rated Current		•	Part No	A	B	C
	I		Withstand Volt	,	AC/minute	2P	1.00	2.40	5.00 -
		e'	Contact Resis			3P	2.00	3.40	6.00
	制度则度则度则度比。	กิ	Insulation Res	sistance : 100	$D\dot{M}\Omega(M\dot{N}.)$	4P	3.00	4.40	7.00 2
			Temperature f	Range :-25°C	~+85°C	5P	4.00	5.40	8.00
						6P	5.00	6.40	9.00
		50		$\sim$		7P	6.00	7.40	10.00
		0.2		Re .		8P	7.00	8.40	11.00
	).20	) 干(			Ro	9P	8.00	9.40	12.00 3
		.40			HB a	10P	9.00	10.40	13.00
	).25		2.78±0.25			11P	10.00	11.40	14.00
						12P		12.40	15.00
						13P		13.40	16.00
	└ └┓ │ │ │ │ │	06.			¥	14P	13.00	14.40	17.00 4
│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │	║┛┼┨╟┼┨║┛┼┨║╵╵	00				15P		15.40	18.00
──│	║┽╫╠┽╢╠┽╢╔┽╢╵	1				16P		16.40	19.00
		FOO				17P		17.40	20.00 -
	╨╴╷╜┹╷╜╨╴╜╙╶╴╜┤╎					18P		18.40	21.00
	╎└┼┘┕┼┘┕┼┘ <mark>┝┼┤</mark> ┠┘	0.50	I M I			19P		19.40	22.00 5
						20P		20.40	23.00
B+(	).20					21P		21.40	24.00
	5.20 <b>-</b>		2.08			24P		24.40	27.00
$\begin{array}{c} 6 \\ \hline 11002H00 \\ \hline 0 \\ \hline 0 \\ \hline 3 \\ \hline 0 \\ \hline 5 \\ \hline 6 \\ \hline \end{array}$	Suitable for JCT	C 11002 series term	inal 🔨 181	P~2.11		30P	29.00	30.40	33.00 6
③ Series No.	Part No.	Material	Color	P	art No.	Mater	rial	Co	lor
② H90 : Side Contact H00 : Up Contact	11002H00-NP	PBT,UL94V-0	Natural(White)	_	0-NP-NK	PBT,UL9			l(White)
(3) No. of Circuits	11002H00-NPA	PBT,UL94V-0	Black	_	0-NPA-NK	PBT,UL9			ack /
$\overline{4}$ A: Product color (AY)	11002H00-NPC	Nylon 66,UL94V-0	Red		0-NPC-NK	Nylon 66,U			ed _
Blank : Natural type	11002H00-NPE	Nylon 66,UL94V-0	Yellow	_	0-NPE-NK	Nylon 66,l	JL94V-0		llow /
5 HF : Halogen Free	11002H00-NP-HF	Nylon 66,UL94V-0	Natural(White)		0-NP-HF-NK	Nylon 66,l			l(White)
lank: Mark NK: No Mark	11002H00-NPA-H	- Nylon 66,UL94V-0	Black	11002H0	0-NPA-HF-NK	Nylon 66,l	JL94V-0	Blo	ack
С4   12.07.24   將18Р主体厚度由2.08或为2.1	1 龚友连 王志刚	一般公差GENERAL TOLERANCE	│	_ICTE® #	<b>F莞市胜蓝电子</b>	·有限公司	料号 PART		
8 C3 11.07.19 主体增加"HF"	龚友连 王志刚	X.X ±0.25 X° ±5° X XX ±0.15 X.X° ±2°	校对 泰友连		— 富强电子		11002h 文件编号	100-NPX-	-XX-XX
C2         10.11.25         ####################################	龚友连 王志刚	X.XX ±0.15 X.X° ±2° X.XXX ±0.08 ▲ MAJOR DIM.	UHK.	品名TITLE		,	- 又件编号 - ENDE(		ľ
C1         10.07.06         新增24P,30P規格	龚友连 王志刚				m PITCH HOUS	NG	比例SCALE	SHEET	版次 REV.
版次REV 日期 DATE 变更内容 DESCRIPTION	审核 CHK. 核准 APPD.		APPD.	1	_	1	1/1	1/1	C4
_/ A	B	С	l D		E	I		F	\



#### ECBT2.E338796

Connectors for Use in Data, Signal, Control and Power Applications - Component Page Bottom

#### Connectors for Use in Data, Signal, Control and Power Applications - Component

E338796

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

DONGGUAN CITY SHENGLAN ELECTRONICS CO LTD Hexin Rd Shatou District Changan Dongguan, Guangdong 523846 CHINA

Connectors, Model(s) Cat. No. 11002H00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 17, 18, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W00, follow by -2X, follow by 5, 6, 8, 9, 10, 12, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11002W90, follow by -2X, follow by 5, 6, 8, 9, 10, 15, 20, 25, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 11004H, followed by -2x10 or -2x15, followed by PL.

Cat. No. 11006H00, followed by -2X10, -2X15 or -2X20, followed by P.

Cat. No. 11252H, followed by -2x, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11252W, followed by -2X, followed by 5, 10, 15 or 20, followed by P.

Cat. No. 11253H, followed by -20 or -30, followed by P.

Cat. No. 11253W, followed by -20 or -30, followed by P.

Cat. No. 11258H00, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow A thru Z or 1 thru 9.

Cat. No. 11258W90, follow by -S, follow by -4, -5, -6, -7, -8, -9, -10, -11, -12, -13, -14, -15, -20, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 11500H00, followed by -2 thru -15, followed by P.

Cat. No. 11500W00, followed by -2 thru -15, followed by P.

Cat. No. 12002H00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12002W00, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9

Cat. No. 12002W90, follow by -2 thru -16, follow by P, follow by A thru Z or 1 thru 9, follow by -L, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9.

Cat. No. 12003H, followed by -2x, followed by 2 thru 17, followed by P.

Cat. No. 12009H00, followed by -2X2, -2X3 or -2X4, followed by P.

Cat. No. 12504H00, followed by -2 thru -15, followed by P, followed by -L.

Cat. No. 12505H00, followed by -2 thru -15 or -20, followed by P.

Cat. No. 12505W00, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12505W90, follow by -2 thru -15, follow by P, follow by A thru Z or 1 thru 9, follow by -A thru -Z or -1 thru -9, follow by -A thru -Z or -1 thru -9, follow by A thru Z or 1 thru 9, follow by -A thru -Z, follow by A thru Z.

Cat. No. 12541H, followed by -2x, followed by 1 thru 20, followed by P.

- Cat. No. 12543H, followed by -2 thru -20, followed by P.
- Cat. No. 12547H00, followed by -3 thru -8, followed by P.
- Cat. No. 13502W90, followed by -2P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9, followed by -A thru -Z, or -0 thru -9.

Cat. No. 13962H00, 13962W00 and 13962W90, followed by -2P thru -10P, followed by A thru Z, followed by -A thru -Z, or -0 thru -9, followed by - A thru -Z, or -0 thru -9.

- Cat. No. 22001H, followed by -2 thru -16, followed by P.
- Cat. No. 22501H, followed by -2 thru -14, followed by P.
- Cat. Nos. 10500H and 10500W, followed by -41 or -51, followed by P.
- Cat. Nos. 11001H and 11001W, followed by -30, followed by P.
- Cat. Nos. 11002H and 11002W, followed by -2 thru -20, followed by P.
- Cat. Nos. 11003H and 11003W, followed by -2 thru -30, followed by P.
- Cat. Nos. 11005H and 11005W, followed by -2X, followed by 2 thru 25, followed by P.
- Cat. Nos. 11251H and 11251W, followed by -2 thru -15, followed by P.
- Cat. Nos. 11254H00, 12006H, 12006W, 12504H and 12504W, followed by -2 thru -15, followed by P.
- Cat. Nos. 11255H, 11255W, 11256H and 11256W, followed by -2 thru -30, followed by P.
- Cat. Nos. 11257H, follow by -4 thru -15, followed by PL.
- Cat. Nos. 11257W, 12503H00 and 12503W00, follow by -2 thru -15, followed by P.
- Cat. Nos. 11501H and 11501W, followed by -2 thru -13, followed by P.
- Cat. Nos. 11501H00 and 11501W00, followed by -14 or -15, followed by P.
- Cat. Nos. 12001H and 12001W, followed by -2 thru -16, followed by P.
- Cat. Nos. 12002H and 12002W, followed by -2x, followed by 2 thru 15, followed by P.
- Cat. Nos. 12004H, 12004W and 12005W, follow by -2 thru -16, followed by P.
- Cat. Nos. 12005H, follow by -2 thru -16, followed by PL.
- Cat. Nos. 12501H and 12501W, followed by -2 thru -16, followed by P.
- Cat. Nos. 12502H and 12502W, followed by -2 thru -15, followed by P.
- Cat. Nos. 50801H and 50801W, follow by -2 thru -24, followed by P.
- Cat. Nos. 51274H-7P and 51275H-7P.

Marking: Company name and model designation on the device or carton. <u>Last Updated</u> on 2014-04-25

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Date: 17 Sep 2019

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SHENGLAN TECHNOLOGY CO., LTD.

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Nylon 66 UL 94V-0 Natural color housing

SGS Job No. :	CP19-049304 - SZ
Tested Sample Info. :	Nylon 66 UL 94V-0 Natural color housing
Client Ref. Info. :	PLEASE SEE REMARK
Date of Sample Received :	05 Sep 2019
Testing Period :	05 Sep 2019 - 17 Sep 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

**Result Summary :** 

Test Requested	Conclusion
RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU	PASS
Elementary Analysis	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Red Phosphor	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Hexabromocyclododecane (HBCDD)	See Results
Phthalate	See Results
Phthalate(s)	See Results
European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	PASS
PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)	See Results



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Date: 17 Sep 2019

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Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Jessieli

Jessie Li Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-175989.003	White material

Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected ( < MDL )

(4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC191759890	07	Date: 1	7 Sep 2019	Page 4 of 19
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:1258 637,25

(2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

(3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

#### **Elementary Analysis**

Test Method : SGS In-house method (GZTC CHEM-TOP-004-01, with reference to US EPA Method 3052:1996), analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Antimony (Sb)	mg/kg	10	ND
Tin (Sn)	mg/kg	5	ND

#### Tetrabromobisphenol A (TBBP-A)

Test Method : SGS In-house method (GZTC CHEM-TOP-065, with reference to US EPA Method 3540C:1996), analysis was performed by GC-MS&HPLC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Tetrabromobisphenol A (TBBP-A)	mg/kg	10	ND

#### Red Phosphor



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Red phosphorus

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Test Method :	SGS In-house method (GZTC CH ICP-OES.	HEM-TOP-215-01), a	inalysis wa	as performed b	y PY-GC/MS/	
Test Item(s)		Unit	MDL	<u>003</u>		

500

mg/kg

ND

#### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

/.				
<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of 7 PAHs Acenaphthylene. Acenaphthene,	-	mg/kg	-	ND
Fluorene, Phenanthrene, Pyrene, Anthracene,				
Fluoranthene				
Sum of 18 PAHs	-	mg/kg	-	ND



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#### AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Catego	ory 2	Category	3	
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	Materials not f category 1 wit foreseeable co skin for longer (long-term skin frequent conta	h ontact to r than 30 s n) or	Materials not falling category 1 or 2 with contact to skin for le (short-term skin cont	foreseeable ess than 30 s	
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG	
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Naphthalene, mg/kg	< 1	< 2	-	< 10		
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50	

#### Hexabromocyclododecane (HBCDD)

Test Method :

SGS in house method (GZTC CHEM-TOP-073, with reference to US EPA Method 3550C: 2007) , analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	MDL	<u>003</u>
Hexabromocyclododecane (HBCDD) and all major diastereoisomers	mg/kg	10	ND
identified (α-HBCDD, β-HBCDD, γ-HBCDD)			



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#### Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>003</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /	%(w/w)	0.010	ND
	68515-48-0			
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /	%(w/w)	0.010	ND
	68515-49-1			
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Di(2-ethyhexyl)adipate (DEHA)	103-23-1	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Diethyl Phthalate (DEP)	84-66-2	%(w/w)	0.003	ND
Dimethyl Phthalate (DMP)	131-11-3	%(w/w)	0.003	ND
Diisooctyl Phthalate (DIOP)	27554-26-3	%(w/w)	0.010	ND
Dipropyl Phthalate (DPrP)	131-16-8	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dibenzyl Phthalate (DBzP)	523-31-9	%(w/w)	0.003	ND
Diphenyl Phthalate (DPhP)	84-62-8	%(w/w)	0.003	ND
Diisopentyl Phthalate (DIPP)	605-50-5	%(w/w)	0.003	ND
1,2-Benzenedicarboxylic acid, di-C6-8-branched	71888-89-6	%(w/w)	0.01	ND
alkyl esters, C7-rich (DIHP)				
1,2-Benzenedicarboxylic acid, di-C7-11-branched	68515-42-4	%(w/w)	0.01	ND
and linear alkyl esters (DHNUP)				
Di-n-heptyl Phthalate (DnHpP)	3648-21-3	%(w/w)	0.003	ND
Dinonyl Phthalate (DNP)	84-76-4	%(w/w)	0.003	ND
Bis(2-methoxyethyl) Phthalate (DMEP)	117-82-8	%(w/w)	0.003	ND

Notes :

(1) DBP,BBP,DEHP, DIBP Reference information: Entry 51 of Regulation (EU) No2018/2005 amending Annex XVII of REACH Regulation (EC) No 1907/2006:

i) Shall not be used as substances or in mixtures, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.

ii) Shall not be placed on the market in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.



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In addition, DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material.

iii) shall not be placed on the market after 7 July 2020 in articles, individually or in any combination of DBP, BBP, DEHP & DIBP, in concentrations equal to or greater than 0.1 % by weight of the plasticised material in the articles.

Please refer to Regulation (EU) No 2018/2005 to get more detail information.

(2) DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the

plasticised material, in toys and childcare articles which can be placed in the mouth by children.

ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.

Please refer to Regulation (EC) No 552/2009 to get more detail information.

#### Phthalate(s)

Test Method : With reference to SGS in house method (SGS-CCL-TOP-042-41) , analysis was performed by LC-MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Phthalic acid, mono-2-ethylhexyl ester(MEHP)	4376-20-9	%(w/w)	0.003	ND

# European Regulation POPs (EU) 2019/1021– Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)

Test Method : With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS / GC-ECD.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>
Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCPs)	1500	mg/kg	50	ND
Comment				PASS
Alkanes C14-C17, chloro (medium -chain chlorinated paraffins)	-	mg/kg	50	ND
(MCCPs)				

#### PFOA & PFOS (Perfluorooctanoic acid & Perfluorooctane sulfonates)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS / GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>003</u>
Perfluorooctanoic acid (PFOA)	335-67-1	mg/kg	0.01	ND
Perfluorooctane Sulfonates (PFOS)^		mg/kg	0.01	ND



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Notes :

(1) ^: PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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#### **ATTACHMENTS**

#### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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Phthalates Testing Flow Chart





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**HBCDD** Testing Flow Chart





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#### **PAHs Testing Flow Chart**





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#### **PFOA / PFOS Testing Flow Chart**





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**Elementary Testing Flow Chart** 





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### SCCP/MCCP/LCCP Testing Flow Chart





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**TBBP-A Testing Flow Chart** 





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Sample photo:



SGS authenticate the photo on original report only

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No. CANEC1921650116

Date: 13 Nov 2019

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SHENGLAN TECHNOLOGY CO., LTD.

NO.4HECING ROAD SHATOU SOUTHERN DISTRICT CHANGAN TOWN DONGGUAN CITY GUANGDONG PROVINCE 523863 CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : Phosphor copper nickel plating tin-plated terminal

SGS Job No. :	CP19-059002 - SZ
Model No. :	12001
Client Ref. Info. :	PLEASE SEE REMARK
Date of Sample Received :	04 Nov 2019
Testing Period :	04 Nov 2019 - 12 Nov 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Vorgyu Xie

Dongyu Xie Approved Signatory



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No. CANEC1921650116

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-216501.006	Silvery metal

#### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	9
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

#### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10  $\mu$ g/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu g/cm^2$  and 0.13  $\mu g/cm^2$  is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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Test Repo	rt	No. CANEC1921650116	3	Date: 13	3 Nov 2019	Page 3 of 8
Elementary An	<u>alysis</u>					
Test Method :		thod (GZTC CHEM-TOP-0 lysis was performed by ICF		th referen	ce to US EPA N	lethod
<u>Test Item(s)</u> Beryllium (Be)			<u>Unit</u> mg/kg	MDL 5	<u>006</u> ND	

#### Perfluorooctanoic acid (PFOA) & Perfluorooctane sulfonates (PFOS)

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

<u>Test Item(s)</u>	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Perfluorooctanoic acid (PFOA)	335-67-1	µg/m²	1.0	ND
Perfluorooctane Sulfonates (PFOS)^	-	µg/m²	1.0	ND

#### Notes :

^ PFOS refer to Perfluorooctanesulfonic acid and its derivatives including Perfluoroctanesulfonic acid, Perfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamide, N-Ethylperfluoroctane sulfonamide, N-Methylperfluoroctane sulfonamidoethanol and N-Ethylperfluoroctane sulfonamidoethanol.



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REMARK

10001、10500、10800、11001、11002、11003、11004、11005、11006、11007、11008、11201、 11202、11204、11250、11251、11252、11253、11254、11255、11256、11257、11258、11259、 11270、11500、11501、11502、11503、11508、11800、11801、12001、12002、12003、12004、 12005、12006、12007、12008、12009、12010、12011、12012、12013、12014、12015、12016、 12017、12018、12501、12502、12503、12504、12505、12506、12508、12509、12540、12541、 12542、12543、12544、12545、12546、12547、12548、12549、13402、13502、13601、13961、 13962、13963、14000、15001、15002、15080、17921、20001、20501、20502、20503、20602、 20800、20803、21001、21251、21501、21611、21811、21813、21814、21816、21817、21818、 21819、22001、22501、32001、33001、33002、34201、34202、35401、34502、35081、35082、 36201、36202、40301、40302、40303、40305、40306、40501、40502、40503、40504、40505、 40506、40507、40508、40513、40536、40559、40561、40562、40583、40584、40586、41001、 41002、41003、41004、41005、41019、41040、41043、41251、42003、50001、50003、 50501、50601、50602、50801、50802、51001、51050、51271、51272、51274、51275、 51276、51277、51278、51279、51280、52001、52002、52003、52004、52005、52006、 52041、52042、52401、52501、52502、52503、52504、54003、54301、55001、60000、 60001、60100、61001、61002、61003、61004、61005、61006、61007、61008、61009、 61010、61013、61100、61270、62001、62291、62771、62772、63100、64001、64100、 65000、65001、65003、65004、67500、69500、70001、70002、70003、70004、70500、 70600、70801、70901、70910、71008、71101、72001、72007、72008、72010、72101、 81290、81290、LVA11、QB140、UCCA8、B0007、B0020、B0027、B0028、B0033、B0105、 TNDA3、JTHA8、SAF85、UAHA2、TNA11、TNDA3、RJCA9、RJHA6、DSB11、MCB11、UAB11、 WFB11、WTB11、RJB11、HDB11、HDB12、HDB13、UCB11、UBB1B、UBB11、UAB16、UADB8、 JAB11、YB、TP、MCMBE1、UMB1B、RJMAE2、BUA0CB、BUA0CB、UCMAJ1、BS0130、 RJMBE1、BS0133、BS0134、TNKBB1、TNTAC1、UATAA1、UAMAE1、USB2.0、UAMAE1、 UATAA1、TNTAE1、UCMAJ1、TNTBT3、9001、 9002、5000102、BT035210、THREE IN ONE、 FOUR IN ONE, USB, HDMI, RJ, 0308, XSBO, XSB1, UA10103, UA09092, MHF, FPC, FFC、SATA、CARD、LVM、BS-8、JACK、J-PIM、RCA、BUAOHV、SUASN2、BOO、JTHA8、 BUAO, OEM, TNAOPO, SCA, TUAOPH, SUAS02, AWDANW, AWDCIW, AWDATB, AHFANB, TNTBC1、TNB12、TNKBG1/2/3/4、UBB14、US90、HE103A、BCO、WUSF5526、UBDU2、 UBMBS1/2、BB0、BPO、HD9A、PIN、TUA0PX、6500、BS0261、B0032、BP0156、BP0237、 BT035210、HP HS、N85、QB140、UC、Charging gun、BB0158、B0026、SA96、SA95、U1B、 AT89、 TN、UBB、BAB11-00BDL1XXL-H、M0143-CA-XX、M0142-CA-XX、HDMAC1XNA-R、 HDMAC2XNA-R、BM0249-NL-BK、BM0248-NL-BK、BB0152-XX-XX Phosphor copper nickel plating tin-plated pin needle



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No. CANEC1921650116

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检验检测专用章 spection & Testing Services

s Co., Ltd

nical Laboratory.

### Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded).







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### **ATTACHMENTS**

### **PFOA / PFOS Testing Flow Chart**





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**ATTACHMENTS** 

**Elementary Testing Flow Chart** 





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Sample photo:



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Plastics - Component

### See General Information for Plastics - Component

DONGGUAN BUNCH PLASTICS TECHNOLOGY CO LTD

Langzhou Industrial Zone

No2 Rd Changping Town

Dongguan, Guangdong 523589 CHINA

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	Material Dsg	Color	mm	Class	I	I	Contraction of the	Imp	2
	Polybutylene Terephthalate	(PBT), glass reinfor	ced, furn	ished as pe	llets.		a v		
	F530-15	NC, BK	1,0	V-0	14	ж.	75	75	
			3.7	V-0	1	10 N	75	75	
	Polybutylene Terephthalate	(PBT), furnished as	pieces.						
	PBTVO+GF 6830-15	NC, WT, BK	1.6	V-0	E.		75	75	
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No. CANEC1900481901

Date: 15 Jan 2019

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FOSHAN SHUNDA ZIHE TRADE CO., LTD

LUZHOU LNDUSTRIAL DEVELOPMENT ZONE, LECONG TOWN, SHUNDE DISTRICT, FOSHAN

The following sample(s) was/were submitted and identified on behalf of the clients as : SPCC

SGS Job No. :	CP19-001207 - GZ
Client Ref. Info. :	Used for:SPCD SPCE SPCEN
Date of Sample Received :	08 Jan 2019
Testing Period :	08 Jan 2019 - 14 Jan 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zuguan

Zm guan Approved Signatory



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No. CANEC1900481901

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-004819.001	Silver-grey metal

#### Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, analyzed by ICP-OES and UV-Vis .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

#### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:125863 7.25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
  - c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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No. CANEC1900481901

### **ATTACHMENTS**

### Pb/Cd/Hg/Cr6+ Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded).





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No. CANEC1900481901

Sample photo:



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Test Report	No. CANEC1900481903	Date: 15 Jan 2019
(SVHC)		

FOSHAN SHUNDA ZIHE TRADE CO., LTD LUZHOU LNDUSTRIAL DEVELOPMENT ZONE, LECONG TOWN, SHUNDE DISTRICT, FOSHAN

The following sample(s) was/were submitted and identified on behalf of the clients as : SPCC				
SGS Job No. :	CP19-001207 - GZ			
Client Ref. Info. :	Used for:SPCD SPCE SPCEN			
Date of Sample Received :	08 Jan 2019			
Testing Period :	08 Jan 2019 - 14 Jan 2019			
Test Requested :As requested by client, SVHC screening is performed according to:(i)Sixty (60) inorganic substances and additional eleven (11) organic metallic substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jun 27, 2018 regarding Regulation (EC) No 1907/2006 concerning the REACH.				
Test Results :	Test Results : Please refer to next page(s).			
Summary :				
According to the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.				

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Zuguan

Zm guan Approved Signatory



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

No. CANEC1900481903

2. REACH obligation:

2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

#### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

#### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Date: 15 Jan 2019



No. CANEC1900481903

Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq$  1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq$  0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1$  % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or

- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

#### **Test Sample :**

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-004819.001	Silver-grey metal

#### **Test Method :**

SGS In-House method- GZTC CHEM-TOP-092-01, Analyzed by ICP-OES, UV-VIS.



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No. CANEC1900481903

#### Date: 15 Jan 2019

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#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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No. CANEC1900481903

# Test Report (SVHC)

#### Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported.

Please refer to Appendix for the full list of tested SVHC.

2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3.\* The test result is based on the calculation of selected element(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.



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## Test Report (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	Cobalt dichloride*	7646-79-9	0.005
Ι	2	Diarsenic pentaoxide*	1303-28-2	0.005
Ι	3	Diarsenic trioxide*	1327-53-3	0.005
Ι	4	Lead hydrogen arsenate*	7784-40-9	0.005
Ι	5	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
Ι	6	Triethyl arsenate*	15606-95-8	0.005
II	7	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	8	Lead chromate*	7758-97-6	0.005
П	9	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
Ш	10	Ammonium dichromate*	7789-09-5	0.005
111	11	Boric acid*	10043-35-3, 11113-50-1	0.005
III	12	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
111	13	Potassium chromate*	7789-00-6	0.005
111	14	Potassium dichromate*	7778-50-9	0.005
	15	Sodium chromate*	7775-11-3	0.005
	16	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
IV	17	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005
IV	18	Chromium trioxide*	1333-82-0	0.005



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(SVHC)

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### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	19	Cobalt(II) carbonate*	513-79-1	0.005
IV	20	Cobalt(II) diacetate*	71-48-7	0.005
IV	21	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	22	Cobalt(II) sulphate*	10124-43-3	0.005
V	23	Strontium chromate*	7789-06-2	0.005
VI	24	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	25	Arsenic acid*	7778-39-4	0.005
VI	26	Calcium arsenate*	7778-44-1	0.005
VI	27	Dichromium tris(chromate) *	24613-89-6	0.005
VI	28	Lead diazide, Lead azide*	13424-46-9	0.005
VI	29	Lead dipicrate*	6477-64-1	0.005
VI	30	Lead styphnate*	15245-44-0	0.005
VI	31	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	32	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	33	Trilead diarsenate*	3687-31-8	0.005
VI	34	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	35	Diboron trioxide*	1303-86-2	0.005
VII	36	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VIII	37	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	38	Acetic acid, lead salt, basic*	51404-69-4	0.005



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### (SVHC)

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#### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	39	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	40	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	41	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	42	Lead cyanamidate*	20837-86-9	0.005
VIII	43	Lead dinitrate*	10099-74-8	0.005
VIII	44	Lead monoxide*	1317-36-8	0.005
VIII	45	Lead oxide sulfate*	12036-76-9	0.005
VIII	46	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	47	Lead titanium trioxide*	12060-00-3	0.005
VIII	48	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	49	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	50	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	51	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	52	Silicic acid, lead salt*	11120-22-2	0.005
VIII	53	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	54	Tetraethyllead*	78-00-2	0.005
VIII	55	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	56	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	57	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	58	Cadmium oxide*	1306-19-0	0.005
IX	59	Cadmium*	7440-43-9	0.005



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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
х	60	Cadmium sulphide*	1306-23-6	0.005
Х	61	Lead di(acetate)*	301-04-2	0.005
XI	62	Cadmium chloride*	10108-64-2	0.005
XI	63	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	64	Sodium peroxometaborate*	7632-04-4	0.005
XII	65	Cadmium fluoride*	7790-79-6	0.005
XII	66	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XVIII	67	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	68	Cadmium carbonate*	513-78-0	0.005
XVIII	69	Cadmium hydroxide*	21041-95-2	0.005
XIX	70	Disodium octaborate*	12008-41-2	0.005
XIX	71	Lead*	7439-92-1	0.005

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Date: 15 Jan 2019

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**ATTACHMENTS** 

### **SVHC Testing Flow Chart**





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Sample photo:



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No. SZXEC1900066305

Date: 16 Jan 2019 Page 1 of 5

SHENZHEN XIONG YUN TECHNOLOGY CO., LTD. (15 WORKSHOPS, XIONG YUN ELECTROPLATING) FOURTH FLOOR, BUILDING B, MIAO YINGHUI INDUSTRIAL PARK, XIXIANG STREET, BAOAN DISTRICT, SHENZHEN CITY.

The following sample(s) was/were submitted and identified on behalf of the clients as : METAL NICKEL PLATING

SGS Job No. :	RP19-000700 - SZ
Date of Sample Received :	11 Jan 2019
Testing Period :	11 Jan 2019 - 16 Jan 2019
Test Requested : Test Method :	Selected test(s) as requested by client. Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

lina

Tina Fan Approved Signatory



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No. SZXEC1900066305

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX19-000663.003	Silver-gray plated metal

#### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	65
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC19000663	305	Date: 16 Jan 2019		Page 3 of 5
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:125863 7,25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm2). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu g/cm2$  and 0.13  $\mu g/cm2$  is considered to be inconclusive unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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No. SZXEC1900066305

### ATTACHMENTS

### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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No. SZXEC1900066305

Sample photo:



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Date: 16 Jan 2019 Page 1 of 6

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The following sample(s) was/were submitted and identified on behalf of the clients as : METAL GILDING SGS Job No. : RP19-000700 - SZ Date of Sample Received : 11 Jan 2019 11 Jan 2019 - 16 Jan 2019 Testing Period : Test Requested : Selected test(s) as requested by client. Test Method : Please refer to next page(s). Test Results : Please refer to next page(s). Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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No. SZXEC1900066303

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX19-000663.002	Silver-gray&golden plated metal

#### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	42
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC19000663	SZXEC1900066303		16 Jan 2019	Page 3 of 6
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl Phthalate (BBP)	1000	mg/kg	50	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

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- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm2). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu g/cm2$  and 0.13  $\mu g/cm2$  is considered to be inconclusive unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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No. SZXEC1900066303

### ATTACHMENTS

### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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Date: 16 Jan 2019

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ATTACHMENTS

Phthalates Testing Flow Chart





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No. SZXEC1900066301

Date: 16 Jan 2019 Page 1 of 5

SHENZHEN XIONG YUN TECHNOLOGY CO., LTD. (15 WORKSHOPS, XIONG YUN ELECTROPLATING) FOURTH FLOOR, BUILDING B, MIAO YINGHUI INDUSTRIAL PARK, XIXIANG STREET, BAOAN DISTRICT, SHENZHEN CITY.

The following sample(s) was/were submitted and identified on behalf of the clients as : METAL TIN PLATING SGS Job No. : RP19-000700 - SZ Date of Sample Received : 11 Jan 2019 Testing Period : 11 Jan 2019 - 16 Jan 2019 Test Requested : Selected test(s) as requested by client. Test Method : Please refer to next page(s). Test Results : Please refer to next page(s). Conclusion : Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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No. SZXEC1900066301

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX19-000663.001	Silvery plated metal

#### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	62
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC1900066301		Date: 7	16 Jan 2019	Page 3 of 5
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:125863 7,25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm2. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm2). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu g/cm2$  and 0.13  $\mu g/cm2$  is considered to be inconclusive unavoidable coating variations may influence the determination.

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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No. SZXEC1900066301

### ATTACHMENTS

### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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No. SZXEC1900066301

Sample photo:



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No. CANEC1901586101

Date: 30 Jan 2019

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DONGGUAN BUNCH PLASTICS TECHNOLOGY CO., LTD.

THE INDUSTRIAL ROAD TWO, LANGZHOU DISTRICT, CHANGPING TOWN, DONGGUAN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PBTV0+GF BK (BK NC BLUE GREEN RED GREY YELLOW) MIXTURE

SGS Job No. :	CP19-004038 - GZ				
Date of Sample Received :	23 Jan 2019				
Testing Period :	23 Jan 2019 - 30 Jan 2019				
Test Requested :	As requested by client, SVHC screening is performed according to: (i) Six (6) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on, Sep 4, 2018 regarding Regulation (EC) No 1907/2006 concerning the REACH.				
Test Results :	Please refer to next page(s).				
Summary :					
• •	e Court of Justice of the European Union on the definition of d the specified scope and evaluation screening, the test	PASS			

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

results of SVHC are  $\leq 0.1\%$  (w/w) in the articles of the submitted sample.

Jenny Jiang

Jenny Jiang Approved Signatory



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#### Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

No. CANEC1901586101

2. REACH obligation:

2.1 Concerning article(s):

#### Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

#### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

#### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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No. CANEC1901586101

Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq$  1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq$  0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1$  % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or

- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

#### **Test Sample :**

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-015861.001	Dk-green plastic

#### **Test Method :**

SGS In-House method- GZTC CHEM-TOP-092-02, Analyzed by GC-MSand HPLC-DAD/MS.



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#### Date: 30 Jan 2019

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#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.

2. RL = Reporting Limit. All RL are based on homogenous material

ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

NA<sup>A</sup> = Upon further test verification on the specific detected element(s) of SVHC and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be exclude entirely. It may be assumed that the detected element(s) have a non-SVHC source.



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Date: 30 Jan 2019

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# **Test Report** (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XX	1	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
xx	2	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
XX	3	Benzo[k]fluoranthene	207-08-9	0.050
XX	4	Fluoranthene	206-44-0	0.050
XX	5	Phenanthrene	85-01-8	0.050
XX	6	Pyrene	129-00-0	0.050



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**ATTACHMENTS** 

### **SVHC Testing Flow Chart**





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No. CANEC1900351602

Date: 10 Jan 2019

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DONGGUAN BUNCH PLASTICS TECHNOLOGY CO., LTD.

THE INDUSTRIAL ROAD TWO, LANGZHOU DISTRICT, CHANGPING TOWN, DONGGUAN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : PBTV0+GF BK (NC BK BLUE GREEN RED GREY YELLOW) MIXTURE

SGS Job No. :	CP19-000910 - GZ
Date of Sample Received :	07 Jan 2019
Testing Period :	07 Jan 2019 - 10 Jan 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Volet Shi

Violet,Shi Approved Signatory



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No. CANEC1900351602

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-003516.002	Dk-green plastic sheet

#### Remarks :

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	16
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19003516	02	Date: 10 Jan 2019		Page 3 of 6
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25



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No. CANEC1900351602

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### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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Phthalates Testing Flow Chart





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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*



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No. CANEC1910449305

Date: 10 Jun 2019

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DONGGUAN CITY DINGRONG METAL MATERIAL CO., LTD. BUILDING B, NIGU ROAD, SHA AO INDUSTRIAL ZONE, SHUTIAN COMMUNITY, HUMEN TOWN,

The following sample(s) was	he following sample(s) was/were submitted and identified on behalf of the clients as : C2680				
SGS Job No. :	CP19-029132 - GZ				
Date of Sample Received :	03 Jun 2019				
Testing Period :	03 Jun 2019 - 10 Jun 2019				
Test Requested :	As requested by client, SVHC screening is performed according to: (i) One hundred and ninety seven (197) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jan 15, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH. (ii) Additional One (1) Substances of Very High Concern (SVHC) identified by the notification of WTO on Feb 7, 2019. (iii)Three (3) substances in the Public Consultation List of potential Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on Mar 13, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.				
Test Results :	Please refer to next page(s).				
Summary :					

According to the specified scope and evaluation screening, the test results of SVHC are PASS  $\leq 0.1\%$  (w/w) in the submitted sample.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Vorgyu Xie

Dongyu Xie Approved Signatory



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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

No. CANEC1910449305

2. REACH obligation:

2.1 Concerning article(s):

Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

#### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

#### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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Date: 10 Jun 2019



No. CANEC1910449305

Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq$  1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq$  0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq 0.1$  % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or

- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

#### **Test Sample :**

Sample Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-104493.001	Brassv metal sheet

#### **Test Method :**

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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### Test Report (SVHC)

#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
XIX	Lead*	7439-92-1	0.007	0.005
-	Other tested SVHC in candidate list	-	ND	-

#### Test Result: (Substances in the Consultation List of potential SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC in consultation list	-	ND	-

#### Test Result:(Additional SVHC)

Batch	Substance Name	CAS No.	001 Concentration (%)	RL (%)
-	All tested SVHC	-	ND	-



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# Test Report (SVHC)

#### Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported.

Please refer to Appendix for the full list of tested SVHC.

2.RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.

3.\* The test result is based on the calculation of selected element(s) and to the worst-case scenario.

\*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website:

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.

6.  $\triangle$  CAS No. of diastereoisomers identified ( $\alpha$ -HBCDD,  $\beta$ -HBCDD,  $\gamma$ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.

7. ☆ CAS No. of 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; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
8. § The substance is proposed for the identification as SVHC only where it contains

Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1)  $\ge 0.1\%$  (w/w). 9.Add. = Additional identified SVHC,/ = Substances in the Consultation List of SVHC.



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# Test Report (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
Ι	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
Ι	4	Anthracene	120-12-7	0.050
Ι	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
Ι	8	Cobalt dichloride*	7646-79-9	0.005
Ι	9	Diarsenic pentaoxide*	1303-28-2	0.005
Ι	10	Diarsenic trioxide*	1327-53-3	0.005
Ι	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) <sup>Δ</sup>	25637-99-4,3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
П	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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# (SVHC)

**Test Report** 

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
П	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
П	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
П	23	Diisobutyl phthalate	84-69-5	0.050
Π	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
П	25	Lead chromate*	7758-97-6	0.005
П	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
П	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
П	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-5	0.005
II	30	Boric acid*	10043-35-3, 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
Ш	32	Potassium chromate*	7789-00-6	0.005
Ш	33	Potassium dichromate*	7778-50-9	0.005
Ш	34	Sodium chromate*	7775-11-3	0.005
Ш	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
Ш	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005



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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050

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# **Test Report** (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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# (SVHC)

**Test Report** 

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-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	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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### (SVHC)

**Test Report** 

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7,13149-00-3,1 4166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	Ŕ	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005

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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)	573-58-0	0.050
Х	148	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	0.050
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005

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## (SVHC)

Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\ge 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	_	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)		
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol 36437-37-3 (UV-350)		0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium 375-95-1,21049-39-8, 4149-60-4		0.050
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050



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No. CANEC1910449305



No. CANEC1910449305

## (SVHC)

**Test Report** 

#### Appendix

### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7,335-76-2,3 830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
XIX	186	Disodium octaborate*	12008-41-2	0.005



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## (SVHC)

## Appendix

## Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl hydrogenated	61788-32-7	0.050
XX	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
xx	193	2,2-bis(4'-hydroxyphenyl)-4- methylpentane	6807-17-6	0.050
ХХ	194	Benzo[k]fluoranthene	207-08-9	0.050
ХХ	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
ХХ	197	Pyrene	129-00-0, 1718-52-1	0.050
Add.	198	4-tert-butylphenol (PTBP)	98-54-4	0.050
/	199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
/	200	2-methoxyethyl acetate	110-49-6	0.050
/	201	Tris(4-nonylphenyl,branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050



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**ATTACHMENTS** 

## **SVHC Testing Flow Chart**





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## **Test Report** (SVHC)

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Sample photo:



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\*\*\* End of Report \*\*\*



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No. CANEC1910449301

Date: 10 Jun 2019

Page 1 of 6

DONGGUAN CITY DINGRONG METAL MATERIAL CO., LTD.

BUILDING B, NIGU ROAD, SHA AO INDUSTRIAL ZONE, SHUTIAN COMMUNITY, HUMEN TOWN,

The following sample(s) was/were submitted and identified on behalf of the clients as : C2680

SGS Job No. :	CP19-029132 - GZ
Date of Sample Received :	03 Jun 2019
Testing Period :	03 Jun 2019 - 10 Jun 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Vorgyu Xie

Dongyu Xie Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-104493.001	Brassy metal sheet

### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	64
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1910449	301	Date: 10 Jun 2019 Page		Page 3 of 6
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>001</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25

- (2) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10  $\mu$ g/cm<sup>2</sup>). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu$ g/cm<sup>2</sup> and 0.13  $\mu$ g/cm<sup>2</sup> is considered to be inconclusive unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.



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No. CANEC1910449301

## **ATTACHMENTS**

## Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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**ATTACHMENTS** 

Phthalates Testing Flow Chart





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# 弘源碩電子材料有限公司

## HungYuanShuo Electronic Accessories CO., LTD

产品规格承认书

版本: A/1

产品名称	H无卤环保热缩套管	供应商代码	
规格/型号	所有系列	客户编号	

## 供應商確認(弘源碩電子材料有限公司)

拟制/日期	审核/日期
范松林 / 2012 年 1 月 15 日	宋大春 / 2012 年 1 月 15 日

### 客戶確認

客户批准/日期	

公司地址:深圳市寶安區沙井街道辦中心路匯盈商務大廈十三樓1301,1302室

- 邮 编: 518104
- 电 话: 0755-29308589
- 传 真: 0755-29308085
- 网 址: www.lyc-hys.com

### 1 主题内容与适用范围

本承认书规定了无卤环保阻燃型热收缩套管的技术要求、试验方法、检验规则以及包装等内容。 本承认书适用于电线连接、焊点保护、电线端部处理、线束及电子元器件的防护和绝缘处理、健身 器材零部件和钢结构表面防护、相关产品的防锈和防腐处理、电线和其它产品的标识等用途的无卤阻 燃型热收缩套管。

## 2 引用标准

Standard for Extruded Electrical Tubing UL 224.

#### 3 术语

3.1 热收缩材料

以可塑性线型高聚物或高聚物合金为基材,用高能辐照方法或化学方法使聚合物分子链部分交 联成为网状结构获得弹性"记忆效应",经加热扩张至特定尺寸后冷却定型,使用时加热到适当温 度后自行收缩到扩张前的形状和尺寸,这种材料称为热收缩材料。

#### 3. 2 热收缩套管

将上述高聚物或高聚物合金通过挤出成型得到规定尺寸的管状中间产品,辐照(或化学)交联 后加热扩张,冷却定型得到的具有一定尺寸的管状产品成为热收缩套管。

#### 3. 3 绿色 RSFR 无卤阻燃热收缩材料

在热收缩材料中添加一定量的不含卤素、重金属等对环境有害的阻燃剂,使之符合一定阻燃要求和环保要求,则成为绿色 RSFR 无卤阻燃热收缩材料。

#### 4 技术要求

- 4.1 使用条件
- 4. 1. 1 连续使用的环境温度: -55℃~125℃。
- 4.1.2 可在酸、碱条件下长期使用。
- 4.1.3 可在环保要求严格的条件下长期使用。
- 4.2 表观要求
- 4.2.1 制品表面无明显划伤、凹凸不平、竹节状缺陷。
- 4. 2. 2 表面光洁、无油污、无积尘。
- 4. 2. 3 印字清晰、无重影、无多余墨迹、无印不全或打滑现象。
- 4.3 热收缩性能
- 4. 3. 1 起始收缩温度 70℃;超薄型完全收缩温度 110℃,普通型完全收缩温度 125℃。
- 按照UL224标准,完全收缩到位温度为200℃,3分钟。
- 4. 3. 2 纵向收缩率不超过±5%
- 4. 4 材料的性能特性

材料的理化性能符合表1规定。

4.5 收缩套管的产品尺寸

无卤阻燃型薄壁热收缩套管的产品尺寸符合表2规定,无卤阻燃型热收缩套管的产品尺寸符合表3规定。

4.6 颜色

标准颜色:黑色、红色、蓝色、黄色、绿色、白色,其它颜色如紫色、灰色、棕色等可根据客户要求 定做。

4.7 使用方法

在使用过程中,为了保证热缩套管能完全收缩到位,使用强制鼓风式恒温烘箱,并将收缩温度 控制在125℃。特别注意,当把热缩套管放入烘箱过程中,烘箱温度有一下降趋势,要达到设定温度 需要一定的时间;同时,在烘箱内通过热空气循环流动使热缩套管达到最终收缩温度同样需要一定 的时间。因此,必须在烘箱实际温度达到设定温度并保持该温度3分钟左右,热缩套管才能完全收 缩到位。

	性能	2 2	测试方法	性能指标
物理性能	拉伸强度/MPa		GB/T1040	≥10.4
	断	裂伸长率/%	GB/T1040	≥200
	热老化	后拉伸强度/MPa	UL224; 158℃×168hr	≥7.3
	热老化	后断裂伸长率/%	UL224; 158℃×168hr	≥100
	耐热冲击		UL224; 250℃×4hr	不发粘,不龟裂
	抗冷弯曲		UL224; -30℃×1hr	不龟裂
电气性能	气性能 耐压 300V		UL224	2500V不击穿
		600V	UL224	2500V不击穿
	击势	穿强度/KV/mm	GB/T1408	≥15
	体积电阻率/Ω•cm		GB/T1410	$\geqslant 1 \times 10^{14}$
化学性能	铜安定性		UL224; 158℃×168hr	PASS
	抗腐蚀性		UL224; 158℃×168hr	PASS
		阻燃性	UL224	VW-1

表1 无卤阻燃型热收缩套管的性能特性

表 2 H-CB 管 (无卤阻燃型薄壁热收缩套管)的产品尺寸

规格	收缩前尺	寸 (mm)	收缩后尺	<b>己寸 (mm)</b>	旧包装	新包裝	适用范围
(mm)	内径	壁厚	内径	壁厚	米/盘	米/盘	(mm)
Ф0.6СВ	$0.90 \pm 0.2$	$0.13 \pm 0.05$	≪0.40	$0.20 \pm 0.10$	200	400	0.4~0.7
Ф0.8СВ	$1.10 \pm 0.2$	$0.13 \pm 0.05$	≪0.50	$0.20 \pm 0.10$	200	400	0.6~0.8
Ф1.0СВ	$1.40 \pm 0.2$	$0.13 \pm 0.05$	≪0.65	$0.20 \pm 0.10$	200	400	0.7~1.0
Ф1.5CB	1.90±0.2	0.13±0.05	≤0.85	$0.20 \pm 0.10$	200	400	0.9~1.4
Ф2.0СВ	2.40 $\pm$ 0.2	$0.13 \pm 0.05$	≤1.00	$0.22 \pm 0.10$	200	400	1.1~1.8
Ф2.5CB	$2.90 \pm 0.2$	$0.13 \pm 0.05$	≤1.30	$0.25 \pm 0.10$	200	400	1.4~2.3
ФЗ. ОСВ	3.40 $\pm$ 0.2	$0.13 \pm 0.05$	≤1.50	$0.28 \pm 0.10$	200	400	1.6~2.7
ФЗ. 5СВ	$3.90 \pm 0.2$	$0.13 \pm 0.05$	≤1.80	$0.28 \pm 0.10$	200	400	1.9~3.2
Ф4.0СВ	$4.40 \pm 0.2$	$0.15 \pm 0.05$	≤2.00	$0.30 \pm 0.10$	200	400	2.1~3.6
Φ4.5CB	$4.90 \pm 0.2$	$0.15 \pm 0.05$	≤2.30	$0.30 \pm 0.10$	100	200	2.4~4.0
Ф5.0СВ	5.50 $\pm$ 0.2	$0.15 \pm 0.05$	≤2.5	$0.32 \pm 0.10$	100	200	2.6~4.5
Ф6.0СВ	$6.50 \pm 0.2$	$0.15 \pm 0.05$	≪3.0	$0.32 \pm 0.10$	100	200	3.1~5.4
Ф7СВ	$7.50 \pm 0.3$	$0.15 \pm 0.05$	≪3.5	$0.32 \pm 0.10$	200	200	3.7~6.3
Φ8CB	$8.50 \pm 0.3$	$0.15 \pm 0.05$	≪4.0	$0.32 \pm 0.10$	200	200	4.2~7.2
Ф 9СВ	9.50 $\pm$ 0.3	$0.15 \pm 0.05$	≪4.5	$0.35 \pm 0.10$	200	200	4.7~8.0
Ф10СВ	$10.5 \pm 0.3$	$0.15 \pm 0.05$	≤5.0	$0.35 \pm 0.10$	200	200	5.2~9.0

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Ф11CВ	$11.5 \pm 0.3$	$0.18 \pm 0.05$	≤5.5	$0.40 \pm 0.10$	200	200	5.7~10.0
Φ12CB	$12.5 \pm 0.3$	$0.20 \pm 0.05$	≤6.0	$0.40 \pm 0.10$	200	200	6.2~11.0
Ф13CВ	$13.5 \pm 0.3$	$0.20 \pm 0.05$	≤6.5	$0.40 \pm 0.10$	200	200	6.7~12.0
Φ14CB	14.5 $\pm$ 0.3	$0.20 \pm 0.05$	≤7.0	$0.40 \pm 0.10$	200	200	7.3~13.0
Ф15CB	$15.5 \pm 0.4$	$0.20 \pm 0.05$	≤7.5	$0.40 \pm 0.10$	200	200	7.8~14.0
Ф16CB	16.5 $\pm$ 0.4	$0.22 \pm 0.05$	≪8.0	$0.40 \pm 0.10$	200	200	8.3~15.8
Ф17СВ	$17.5 \pm 0.4$	$0.22 \pm 0.05$	≤8.5	$0.40 \pm 0.10$	200	200	8.8~16.0
Ф18CВ	$18.5 \pm 0.4$	$0.22 \pm 0.05$	≪9.0	$0.42 \pm 0.10$	200	200	9.3~17.0
Ф 20СВ	20.5 $\pm$ 0.5	$0.25 \pm 0.05$	≤10.0	$0.45 \pm 0.10$	200	200	10.5~19.0
Ф 22CB	22.5 $\pm$ 0.5	$0.25 \pm 0.05$	≤11.0	$0.45 \pm 0.10$	200	200	11.5~20.5
Ф 25CB	25.5 $\pm$ 0.5	$0.25 \pm 0.05$	≤12.5	$0.45 \pm 0.10$	100	100	13.0~24.0

E203950 **CAL W** WOER RSFR(CB) TUBE  $125^{\circ}$  VW-1 H ( $\phi$  9CB)

表3 H管(无卤阻燃型热收缩套管)的产品尺寸要求

规格 (mm)	收缩前尺	寸 (mm)	收缩后	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
	内径	壁厚	最大内径	壁厚	米/盘	米/盘	(mm)
Ф0.6	$0.9 \pm 0.2$	$0.18 \pm 0.05$	≤0.40	$0.33 \pm 0.10$	200	400	0.4~0.7
Φ0.8	$1.1 \pm 0.2$	$0.18 \pm 0.05$	≤0.50	$0.33 \pm 0.10$	200	400	0.6~0.8
Φ1.0	$1.5 \pm 0.2$	$0.20 \pm 0.05$	≤0.65	$0.36 \pm 0.10$	200	400	0.75~0.9
Φ1.5	$2.0\pm 0.2$	$0.20 \pm 0.05$	≤0.85	$0.36 \pm 0.10$	200	400	0.95~1.4
Φ2.0	2.5 $\pm$ 0.2	$0.20 \pm 0.05$	≤1.00	$0.45 \pm 0.10$	200	400	1.1~1.8
Φ2.5	$3.0 \pm 0.2$	$0.20 \pm 0.05$	≤1.30	$0.45 \pm 0.10$	200	400	1.35~2.3
Φ3.0	$3.5 \pm 0.2$	$0.23 \pm 0.05$	≤1.50	$0.45 \pm 0.10$	200	400	1.6~2.7
Ф3.5	$4.0\pm0.2$	$0.23 \pm 0.05$	≤1.80	$0.45 \pm 0.10$	200	400	1.85~3.2
Φ4.0	$4.5 \pm 0.2$	$0.25 \pm 0.05$	≤2.00	$0.45 \pm 0.10$	200	400	2.1~3.6
Φ4.5	$5.0 \pm 0.2$	$0.28 \pm 0.05$	≤2.30	$0.56 \pm 0.10$	100	200	2.35~4.0
Φ5.0	5.5 $\pm$ 0.2	$0.28 \pm 0.05$	≤2.50	$0.56 \pm 0.10$	100	200	2.6~4.5
Φ6.0	$6.5 \pm 0.2$	$0.28 \pm 0.05$	≤3.00	$0.56 \pm 0.10$	100	200	3.1~5.4
Φ7.0	$7.5 \pm 0.3$	$0.30 \pm 0.05$	≤3.50	$0.56 \pm 0.10$	100	100	3.7~6.3
Φ8.0	$8.5 \pm 0.3$	$0.30 \pm 0.08$	≤4.00	$0.56 \pm 0.10$	100	100	4.2~7.2
Φ9.0	9.5 $\pm$ 0.3	$0.30 \pm 0.08$	≤4.50	$0.56 \pm 0.10$	100	100	4.7~8.0
Φ10	$10.5 \pm 0.3$	$0.30 \pm 0.08$	≤5.00	$0.56 \pm 0.10$	100	100	5.2~9.0
Φ11	$11.5 \pm 0.3$	$0.30 \pm 0.08$	≤5.50	$0.56 \pm 0.10$	100	100	5.7~10
Φ12	$12.5 \pm 0.3$	$0.30 \pm 0.08$	≤6.00	$0.56 \pm 0.10$	100	100	6.2~11
Φ13	$13.5 \pm 0.3$	$0.35 \pm 0.08$	≤6.50	$0.56 \pm 0.10$	100	100	6.7~12
Φ14	$14.5 \pm 0.3$	$0.35 \pm 0.10$	≤7.00	$0.70 \pm 0.10$	100	100	7.3~13
Φ15	$15.5 \pm 0.4$	$0.35 \pm 0.10$	≤7.50	$0.70 \pm 0.10$	100	100	7.8~14

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规格 (mm)	收缩前尺	寸 (mm)	收缩后	尺寸 (mm)	旧包装	新包装	适用范围 (mm)
Φ16	16.5 $\pm$ 0.4	$0.35 \pm 0.10$	≤8.00	$0.70 \pm 0.10$	100	100	8.3~15
Φ17	$17.5 \pm 0.4$	$0.35 \pm 0.10$	≪8.50	$0.70 \pm 0.10$	100	100	8.8~16
Φ18	$19.0 \pm 0.5$	$0.35 \pm 0.10$	≪9.00	$0.70 \pm 0.10$	100	100	9.3~17
Φ20	$22.0\pm 0.5$	$0.40 \pm 0.10$	≤10.00	$0.83 \pm 0.10$	100	100	10.4~19
Φ22	24.0 $\pm$ 0.5	$0.40 \pm 0.12$	≤11.00	$0.83 \pm 0.15$	100	100	11.4~21
Φ25	$26.0\pm0.5$	$0.45 \pm 0.12$	≤12.50	$0.90 \pm 0.15$	50	50	12.8~24
Φ28	29.0 $\pm$ 0.5	$0.45 \pm 0.12$	≤14.00	$0.90 \pm 0.15$	50	50	14.4~29
Φ30	$31.5 \pm 1.0$	$0.45 \pm 0.12$	≤15.00	$1.00 \pm 0.15$	50	50	16~29
Φ35	$36.5 \pm 1.0$	$0.45 \pm 0.12$	≤17.50	$1.00 \pm 0.15$	50	50	$18 \sim 34$
Φ40	$41.5 \pm 1.0$	$0.50 \pm 0.12$	≤20.00	$1.00 \pm 0.15$	50	50	21~39
Φ45	$46.5 \pm 1.0$	$0.50 \pm 0.15$	≤22.50	$1.00 \pm 0.20$	25	25	23.5~44
Φ50	≥50	$0.50 \pm 0.15$	≤25.00	$1.10\pm 0.20$	25	25	26~49

E203950 | SALUS | WOER RSFR-H TUBE 125°C VW-1 H ( $\phi$ 9)

注: Ф30 及以上规格产品默认为G管(环保性能符合欧盟RoHS 2002/95/EC标准)。如果客户需H 无卤热缩套管,须在订单上注明。

4.8 环境物质

本承认书承诺不使用以下物质,四大重金属、多溴联苯(PBB)、多溴联苯醚(PBDE)、卤素等通 过 SGS 检测。无卤阻燃型热收缩套管的环保特性列于表 4。

- 1. 多氯化联苯(PCB)类
- 2. 多氯化萘(PCN)类
- 3. 氯化石蜡
- 4. 灭蚁灵 (Mirex)
- 5. 其它有机氯化合物
- 6. 有机溴化合物-多溴联苯 (PBB)
- 7. 有机溴化合物-多溴联苯醚 (PBDE)
- 8. 有机锡化合物(三丁基锡化合物和三苯基锡化合物)
- 9. 石棉
- 10. 偶氮化合物
- 11. 甲醛

环境物质	含量	测试方法
氟 (F)	≤200PPM	EN 14582 Method B
氯(C1)	≪900ppm	EN 14582 Method B
溴 (Br)	≪900ppm	EN 14582 Method B
碘 (I)	≤200PPM	EN 14582 Method B

#### 表4 无卤阻燃型热收缩套管的环保特性

## 弘源碩電子材料有限公司

镉 (Cd)	≪5ppm	IEC 62321
铅 (Pb)	$\leqslant$ 90ppm	IEC 62321
铬(Cr <sup>6+</sup> )	≪5ppm	IEC 62321
汞 (Hg)	≪5ppm	IEC 62321
砷 (As)	$\leqslant$ 50ppm	EPA 3052
钡 (Ba)	$\leqslant$ 1000ppm	EPA 3052
锑(Sb)	$\leqslant$ 60ppm	EPA 3052
硒 (Se)	≤25ppm	EPA 3052

备注: 氯(C1) + 溴(Br) <1500ppm

5. 材质证明书

#### 材质证明书

沃尔核材股份有限公司无卤环保型 RSFR-H 热缩套管是一种阻燃型的热收缩套管,组成材料为 聚烯烃加适量阻燃剂和助剂。产品中铅(Pb)、镉(Cd)、汞(Hg)、六价铬(Cr<sup>6+</sup>)、多溴联苯(PBB)、多 溴联苯醚(PBDE)等环境物质含量符合日本 SONY-SS-00259 和欧盟 RoHS 2002/95/EC 指令环保要求。其 主要成份如下:

	原料名称			含量	供应商	CAS. NO.
中文	英文	分子式				
聚烯烃	Polyolefin	$(CH_2CH_2)$ n	主剂	50%	北京有机	9002-88-4
氢氧化镁	Magnesium	Mg (OH) <sub>2</sub>	阻燃剂	35%	锦昊辉	1309-42-8
	Hydroxide					
磷系阻燃剂	Phosphorus	$(NH_4PO_3) n$	阻燃剂	10%	上海海以	7723-14-0
色母粒	Pigment	色母+填充剂	着色剂	5%	华万彩	
油墨	Printing Ink		印字		上海捷信	

## 6. 技术资料

- (1) UL/cUL证书
- (2) IS09001 证书
- (3) IS014001证书
- (4) ISO/TS16949 证书
- (5) SGS/ITS/CTI 检测报告

## 弘源碩電子材料有限公司

二零一二年一月十五日

#### 第6页共6页

E203950

ONLINE CERTIFICATIONS DIRECTORY

## YDPU2.E203950 Tubing, Extruded Insulating - Component

Page Bottom

## **Tubing, Extruded Insulating - Component**

See General Information for Tubing, Extruded Insulating - Component

#### SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO LTD

XINWEI INDUSTRIAL PARK, WOER MANSION NANSHAN DISTRICT, XILI SHENZHEN, GUANGDONG 518052 CHINA

Cat. No.	Max V	Max Temp C	Col Recognized	Max Temp Rated Oil Resistance C	VW-1 Rated #
Flexible Heat-Sh	rinkable l	Polyolefin Tub	ing		
RSFR	600	125	All except Clear	None	\$
WKZM-x-yz	600	125	White	None	No
RSFR-H	600	125	All except Clear	None	Yes
RSFR(CB)	300	125	All except Clear	None	Yes
Not Heat-Shrink	able PTFE	Tubing			
WF	600	200	Natural	None	Yes
Heat-Shrinkable	Polyolefi	n Tubing with	Meltable Liner		
SBRS	600	125	All except Clear	None	Yes
Not Heat-Shrinkable Standard Wall Silicone Tubing					
WST-600	600	150	White	None	@

x-yz - x represents tubing expanded ID, yz represents any alpha and/or numeric combination - for internal client code.

# - Tubing is considered to comply with the optional VW-1 flammability requirements only if it is so marked for tubing authorized below.

@ - VW-1 rated for internal diameter sizes 6.50 - 15.00 mm only.

\$ - VW-1 rated for Black color only.

Marking: Company name or file number "E203950", catalog number, voltage rating, temperature rating in degrees C, inside diameter (before and after recovery), and date of manufacture shall be marked on tags attached to both ends of the tubing, on the shipping spool label or on the smallest unit container. Last Updated on 2008-04-30

Questions?

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#### Report No. A2190096126101003R1

Applicant SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO., LTD.

Address WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREER, PINGSHAN DISTRICT, SHENZHEN, GUANGDONG.

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name Sample Received Date Testing Period	PE masterbatch- Black Apr. 26, 2019 Apr. 26, 2019 to Apr. 29, 2019
Test Requested	As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).
Test Method	Please refer to the following page(s).
Test Result(s)	Please refer to the following page(s).



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Hill Zheng

Reviewed by

Jori Xia

Date

May 17, 2019

No. R179757340

Technical Manager

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China



#### Report No. A2190096126101003R1

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#### **Test Method**

Test Item(s)	Test Method	Measured Equipment(s)
Lead(Pb)	IEC 62321-5:2013	ICP-OES
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls(PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS





Report No. A2190096126101003R1

Test Result(s)		
Tested Item(s)	Result	MDL
Lead(Pb)	36 mg/kg	2 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg
Mercury(Hg)	N.D.	2 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Biphenyls(PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg
Tested Item(s)	Result	MDL
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

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#### Report No. A2190096126101003R1

Test Result(s)

. ,		
Tested Item(s)	Result	MDL
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg

#### Sample/Part Description Black plastic grains

 Remark:
 The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

 -MDL = Method Detection Limit

 -N.D. = Not Detected (<MDL)</td>

 -mg/kg = ppm = parts per million

 Note:
 This testing report revised "Sample Name" based on the original report of

No. A2190096126101003. This testing report displaces the original one which was invalid since the date of this testing report released. Page 4 of 7



#### Report No. A2190096126101003R1

**Test Process** 

#### 1. Lead(Pb), Cadmium(Cd), Chromium(Cr)



WA Paulo . Y

Page 5 of 7



## **Report No.** A2190096126101003R1**5.** Phthalates (DBP, BBP, DEHP, DIBP)

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#### **Report No.** A2190096126101003R1

Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
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No. CANEC1911780603

Date: 26 Jun 2019

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SINWA LASER TECHNOLOGY CO., LTD

50.WU KONG 5 TH RD, WU KU INDUSTRIAL PARK . TAIPEI TAIWAN

The following sample(s) was/were submitted and identified on behalf of the clients as : HALOGEN FREE WHITE INK

SGS Job No. :	CP19-032627 - SZ
Model No. :	I-TPE-01
Client Ref. Info. :	I-PE-01; I-TPE-01;I-TPR-01;I-PE-01; I-PPE-01;I-PP-01;I-TPU-01;I-RU-01
Date of Sample Received :	19 Jun 2019
Testing Period :	19 Jun 2019 - 26 Jun 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Volet Shi

Violet,Shi Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN19-117806.002	White liquid

### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 , IEC 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES , UV-Vis and GC-MS .

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC19117806	03	Date: 2	26 Jun 2019	Page 3 of 6
<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1,000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1,000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1,000	mg/kg	50	ND	

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.IEC 62321 series is equivalent to EN 62321 series http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25

Remark: The result(s) shown is/are of the total weight of dried sample.



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## **ATTACHMENTS**

## Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ and PBBs/PBDEs test method excluded).





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ATTACHMENTS

Phthalates Testing Flow Chart





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Sample photo:



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No. SZXEC1902199601

Date: 21 Oct 2019

Page 1 of 7

## SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO., LTD.

WOER INDUSTRIAL PARK, LANJING NORTH ROAD, LONGTIAN STREET, PINGSHAN DISTRICT, SHENZHEN, GUANGDONG

The following sample(s) was/were submitted and identified on behalf of the clients as : PLEASE SEE REMARK

SGS Job No. :	RP19-021176 - SZ
Date of Sample Received :	16 Oct 2019
Testing Period :	16 Oct 2019 - 21 Oct 2019
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Ford

Ford Shi Approved Signatory



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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SZX19-021996.001	Black tube w/ white printing

### Remarks :

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected ( < MDL )
- (4) "-" = Not Regulated

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. SZXEC1902199601		Date:	21 Oct 2019	Page 3 of 7
<u>Test Item(s)</u>	Limit	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Hexabromodiphenyl ether	- n	ng/kg	5	ND	
Heptabromodiphenyl ether	- n	ng/kg	5	ND	
Octabromodiphenyl ether	- n	ng/kg	5	ND	
Nonabromodiphenyl ether	- n	ng/kg	5	ND	
Decabromodiphenyl ether	- n	ng/kg	5	ND	
Dibutyl Phthalate (DBP)	1000 n	ng/kg	50	ND	
Butyl benzyl Phthalate (BBP)	1000 n	ng/kg	50	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	1000 n	ng/kg	50	ND	
Diisobutyl Phthalate (DIBP)	1000 n	ng/kg	50	ND	

#### Notes :

(1)The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID:12586 37,25

(2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

(3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.



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REMARK

RSFR-H HEAT SHRINKABLE TUBINGS ( E203950 NIM) WOER RSFR-H TUBE 125°C VW-1 H )



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No. SZXEC1902199601

### **ATTACHMENTS**

#### Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

1)These samples were dissolved totally by pre -conditioning method according to below flow chart. (Cr<sup>6+</sup> and PBBs/PBDEs test method excluded).





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ATTACHMENTS

Phthalates Testing Flow Chart





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No. SZXEC1902199601

Sample photo:



SGS authenticate the photo on original report only

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No. SZXEC1902150003

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### SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD. WOER MANSION, NORTH LANJING RD,PINGSHAN, SHENZHEN P.R.CHINA

The following sample(s) was/we	he following sample(s) was/were submitted and identified on behalf of the clients as : PLEASE SEE REMARK				
SGS Job No. :					
Date of Sample Received :	Date of Sample Received : 11 Oct 2019				
Testing Period :	11 Oct 2019 - 16 Oct 2019				
Test Requested :	Requested : As requested by client, SVHC screening is performed according to: (i) Two hundred and one (201) substances in the Candidate List of Substances Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Jul 16, 2019 regarding Regulation (EC) No 1907/2006 concerning the REACH.				
Test Results :	Please refer to next page(s).				
Summary :					
According to the specified scope and evaluation screening, the test results of SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.					

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Tina Fan Approved Signatory



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No. SZXEC1902150003

#### Remark :

 The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA: http://echa.europa.eu/web/guest/candidate-list-table

These lists are under evaluation by ECHA and may subject to change in the future.

2. REACH obligation:

2.1 Concerning article(s):

#### Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

#### Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

SGS adopts the ruling of the Court of Justice of the European Union on the definition of an article under REACH unless indicated otherwise. Detail explanation is available at the following link:

http://www.sgs.com/-/media/global/documents/technical-documents/technical-bulletins/sgs-crs-position-statement-on-svhc-in-articles-a4-en-16-06.pdf?la=en

#### 2.2 Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

#### 2.3 Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety



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No. SZXEC1902150003

Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.

- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or

- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of  $\geq$  1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq$  0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of  $\geq$  0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or

- (d) a substance for which there are Europe-wide workplace exposure limits.
- 3. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

#### Test Sample :

Sample Description :

Specimen	SGS	Description
No.	Sample ID	
SN1	SZX19-021500.002	Black tube

#### Test Method :

SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.



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No. SZXEC1902150003

#### Date: 16 Oct 2019

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#### Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	002 Concentration (%)	RL (%)
-	All tested SVHC in candidate list	-	ND	-



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### Test Report (SVHC)

Notes :

1. The table above only shows detected SVHC, and SVHC that below RL are not reported.

Please refer to Appendix for the full list of tested SVHC.

2.RL = Reporting Limit (Test data will be shown if it  $\geq$  RL. RL is not regulatory limit.).ND = Not detected (lower than RL),

ND is denoted on the SVHC substance.

3.\* The test result is based on the calculation of selected element(s) and to the worst-case scenario.

\*\* The test result is based on the calculation of selected marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website :

http://www.sgs.com/en/Consumer-Goods-Retail/Toys-and-Juvenile-Products/Toys/REACH/Management-of-SVHC.aspx

4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively),

except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).

5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES.

6.  $\triangle\,$  CAS No. of diastereoisomers identified (a-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.

7. \* CAS No. of 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; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
8. § The substance is proposed for the identification as SVHC only where it contains

Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).



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### Test Report (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
Ι	4	Anthracene	120-12-7	0.050
Ι	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
Ι	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
Ι	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
Ι	8	Cobalt dichloride*	7646-79-9	0.005
Ι	9	Diarsenic pentaoxide*	1303-28-2	0.005
Ι	10	Diarsenic trioxide*	1327-53-3	0.005
Ι	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD) <sup>Δ</sup>	25637-99-4, 3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
Ι	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
Π	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil**	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste**	90640-81-6	0.050
П	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050



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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low**	90640-82-7	0.050
II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	25	Lead chromate*	7758-97-6	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.**	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
	30	Boric acid*	10043-35-3, 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,- 13530-68-2	0.005

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### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050

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### Test Report (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4- (dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylide ne] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylamm onium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005



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#### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trio ne)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-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	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005



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#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.050
VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	*	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005



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#### Appendix Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050
VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005



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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)**	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
Х	145	Cadmium sulphide*	1306-23-6	0.005
Х	146	Dihexyl phthalate	84-75-3	0.050
х	147	Disodium 3,3'- [[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su Iphonate) (C.I. Direct Red 28)	573-58-0	0.050
х	148	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	0.050
Х	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Х	150	Lead di(acetate)*	301-04-2	0.005
Х	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
XI	153	Cadmium chloride*	10108-64-2	0.005
XI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
XI	155	Sodium peroxometaborate*	7632-04-4	0.005



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### (SVHC)

Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XII	156	2-(2H-Benzotriazol-2-yl)-4,6- ditertpentylphenol (UV-328)	25973-55-1	0.050
XII	157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
XII	158	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate; DOTE	15571-58-1	0.050
XII	159	Cadmium fluoride*	7790-79-6	0.005
XII	160	Cadmium sulphate*	10124-36-4, 31119-53-6	0.005
XII	161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradeca noate & 2-ethylhexyl 10-ethyl-4-[[2- [(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-di thia-4-stannatetradecanoate (reaction mass of DOTE & MOTE)	-	0.050
XIII	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\ge 0.3\%$ of dihexyl phthalate	68515-51-5, 68648-93-1	0.050
XIII	163	5-sec-butyl-2- (2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2- (4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	0.050
XIV	164	1,3-propanesultone	1120-71-4	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
XIV	167	Nitrobenzene	98-95-3	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	0.050

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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XV	169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
XVI	170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
XVI	171	4-Heptylphenol, branched and linear	-	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7, 335-76-2, 3830-45-3	0.050
XVI	173	p-(1,1-dimethylpropyl)phenol	80-46-6	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts	-	0.050
XVIII	175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12. 2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	0.050
XVIII	176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
XVIII	177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.005
XVIII	178	Cadmium carbonate*	513-78-0	0.005
XVIII	179	Cadmium hydroxide*	21041-95-2	0.005
XVIII	180	Chrysene	218-01-9, 1719-03-5	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
XIX	183	Benzo[ghi]perylene	191-24-2	0.050
XIX	184	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
XIX	185	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050



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### (SVHC)

#### Appendix

#### Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
XIX	186	Disodium octaborate*	12008-41-2	0.005
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	0.050
XIX	189	Lead*	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	0.050
ХХ	192	1,7,7-trimethyl-3- (phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	0.050
XX	195	Fluoranthene	206-44-0, 93951-69-0	0.050
XX	196	Phenanthrene	85-01-8	0.050
XX	197	Pyrene	129-00-0, 1718-52-1	0.050
XXI	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	0.050
XXI	199	2-methoxyethyl acetate	110-49-6	0.050
XXI	200	4-tert-butylphenol (PTBP)	98-54-4	0.050
XXI	201	Tris(4-nonylphenyl,branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.050



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REMARK

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ATTACHMENTS

#### SVHC Testing Flow Chart





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# \_\_\_\_\_ (Fill in Company name) Response to global green environmental protection regulations or other laws, guarantee the following matters:

- 一、產品符合歐盟 RoHS (2011/65/EU)\* 規範。 The product complies with EU RoHS (2011/65/EU) norms.
  - i. 歐盟於 2015 年 6 月 4 日公布指令 (EU) 2015/863,將四項可塑劑 DEHP, BBP, DBP and DIBP 增加至 Annex II 清單中,限值仍為 1000ppm,從 2019 年 7 月 22 日起需符合此要 求,作為供應商,如果有包含上述物質,務必主動通知研揚。
     EU announce with (EU)2015/863 that DEHP, BBP, DBP and DIBP are primarily used to soften plastics, that will be restricted from 22 July 2019 for all electrical and electronic equipment. As suppliers, if your components content with above substances, please inform to AAEON related people.

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### 不使用限用物質聲明書 Non-use of restricted substances statement



ii. 當作為包材類的材料,也須符合歐盟包裝指令(94/62/EC)與修訂指令(2013/2/EU)
 When used as package material, it also needs to comply with EU package directive (94/62/EC) and amendment (2013/2/EU)
 Note: Pb+Cd+Hg+Cr<sup>6+</sup> <100 ppm</li>

- iii. 若為電池零件,也須符合電池指令 2006/66/EC 與修訂指令 2013/56/EU
   For battery components, it also needs to comply with EU battery directive (2006/66/EC) and amendment (2013/56/EU)
   Note: Cd<20ppm; Hg <5ppm</li>
- 二、產品符合衝突金屬(Conflict Metal)規範,並確認銷售產品若有含錫、鉭、鎢、金這四種礦產, 來源並非來自剛果民主共和國及其周邊國家剛果、烏干達、蘇丹、坦桑尼亞、盧旺達、安哥拉、 贊比亞、布隆迪。

The product complies with the conflict metal norms, and confirm that your company selling products contain tin tantalum tungsten gold four mineral, those sources are not come from Democratic Republic of the Congo and its neighboring countries of Congo Uganda San Tanzania, Rwanda, Angola, Zambia, Burundi.

三、產品符合歐盟最新REACH (EC 1907/2006) 規範,
 高關注物質(SVHC),不超過 0.1%上限,以重量計算。
 備註:請參照歐盟化學總署(ECHA)網站,最新的高關注物質清單。
 This product complies with latest EU REACH (EC 1907/2006) norms.
 The SVHC, are not over 0.1% threshold by weight.
 Note: Please check ECHA website for latest SVHC list: https://echa.europa.eu/candidate-list-table

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