

No. GZSL1412138571TX

Date: Jan 06, 2015

Page 1 of 11

ZHUHAI FREE TRADE ZONE NEOJET-APOLLOJET IMAGING MATERIALS CO.,LTD NO.47, ZHUHAI FREE TRADE ZONE, GUANGDONG, CHINA

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

Sample Description One sample of sublimation inkjet ink for textile.

Sample Receiving Date Dec 26, 2014

Test Performing Period Dec 26, 2014 - Jan 06, 2015

Test Performed Selected tests as requested by applicant

Test Result(s) Please refer to the next page(s).

Signed for and on behalf of SGS-CSTC Ltd.

Lily XY-Wang Supervisor



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No. GZSL1412138571TX

Date: Jan 06, 2015

Page 2 of 11

Test Result:

Component List / List of Materials

Sample No.	Material No.	Component	Material	Color	Fiber Type*	Remark
-	1	Black paste	-	Black	-	-
* This fiber tv	This fiber type identification is for the selection of azo dye testing procedure (i.e. EN 14362-1/3:2012).					

Type A = Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Type B = Textile contains polyester fibers only

Type C = Textile contains man-made fibers and/or man-made blended fibers (except polyester fibers)

N/A=Not applicable



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No. GZSL1412138571TX

Date: Jan 06, 2015

Page 3 of 11

EN 71 Part 3:1994 + A1:2000/AC:2002 - Migration of Certain Elements

Method: With reference to EN 71 Part 3:1994 + A1:2000/AC:2002. Analysis was performed by ICP-OES.

Test Item		Result (mg/kg) 1	Detection Limit (mg/kg)	Permissible Limit (mg/kg)
Soluble Lead	(Pb)	ND	5	90
Soluble Antimony	(Sb)	ND	5	60
Soluble Arsenic	(As)	ND	2.5	25
Soluble Barium	(Ba)	ND	10	1000
Soluble Cadmium	(Cd)	ND	5	75
Soluble Chromium	(Cr)	ND	5	60
Soluble Mercury	(Hg)	ND	5	60
Soluble Selenium	(Se)	ND	10	500
Comment		PASS		

Note: 1. mg/kg = milligram per kilogram

2. ND = Not Detected

Chlorinated Organic Carriers (COC)

Test Method: With reference to DIN 54232: 2010 - Analysis was conducted with GC-MS

	<u>Result</u>
Chlorinated Organic Carriers	<u>1</u>
Dichlorobenzenes	n.d.
Trichlorobenzenes	n.d.
Tetrachlorobenzenes	n.d.
Pentachlorobenzenes	n.d.
Hexachlorobenzene	n.d.
Chlorotoluenes	n.d.
Dichlorotoluenes	n.d.
Trichlorotoluenes	n.d.
Tetrachlorotoluenes	n.d.
Pentachlorotoluene	n.d.
Total	n.d.

Note: Detection limit = 0.1 mg/kg

n.d. = not detected



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No. GZSL1412138571TX

Date: Jan 06, 2015

Page 4 of 11

Chlorinated Phenols

With reference to DIN EN ISO 17070: 2007/ DIN 53313 / CEN/TS 14494:2003. Analysis was Test Method:

conducted by GC-ECD

	<u>Result</u> (mg/kg)
	<u>1</u>
Pentachlorophenol (PCP)	n.d.
Trichlorophenol (TCP)	n.d.
Tetrachlorophenol (TeCP)	n.d.

Note: n.d.= not detected

Detection limit = 0.05 mg/kg

Organotins

Test Method: With reference to BS ISO 17353:2004. Analysis was conducted by GC-MS.

Organotin	Result (mg/kg)
	<u>1</u>
Monobutyltin (MBT)	ND
Dibutyltin (DBT)	ND
Tributyltin (TBT)	ND

Note: ND = not detected

Detection limit = 0.02 mg/kg (for individual compound)



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No. GZSL1412138571TX

Date: Jan 06, 2015

Page 5 of 11

Azo Dyes

Test Method:

Colorants: According to EN 14362-1:2012 Annex F - Analysis was conducted with GC-MS/HPLC-DAD. Determination of 4-aminoazobenzene (CAS No.:60-09-3) - EN 14362-3:2012 with the use of GC-MS/HPLC-DAD.

Amines		<u>Result</u> (mg/kg)	Client Requirement (mg/kg)
	CAS No.	1	
4-Aminobiphenyl	92-67-1	n.d.	30
Benzidine	92-87-5	n.d.	30
4-Chlor-o-toluidine	95-69-2	n.d.	30
2-Naphthylamine	91-59-8	n.d.	30
o-Aminoazotoluene	97-56-3	n.d.	30
5-nitro-o-toluidine / 2-Amino-4- nitrotoluene	99-55-8	n.d.	30
4-Chloroaniline	106-47-8	n.d.	30
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	n.d.	30
4,4'-Diaminodiphenylmethane	101-77-9	n.d.	30
3,3'-Dichlorobenzidine	91-94-1	n.d.	30
3,3'-Dimethoxybenzidine	119-90-4	n.d.	30
3,3'-Dimethybenzidine	119-93-7	n.d.	30
4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'- diaminodiphenylmethane	838-88-0	n.d.	30
p-Cresidine	120-71-8	n.d.	30
4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	n.d.	30
4,4'-Oxydianiline	101-80-4	n.d.	30
4,4'-Thiodianiline	139-65-1	n.d.	30
o-Toluidine	95-53-4	n.d.	30
4-methyl-m-phenylenediamine / 2,4-Toluylendiamine	95-80-7	n.d.	30
2,4,5-Trimethylaniline	137-17-7	n.d.	30
4-aminoazobenzene	60-09-3	n.d.	30
O-Anisidine	90-04-0	n.d.	30
Conclusion		Pass	

Note: n.d. = not detected

*= exceed the limit

Detection Limit = 10 mg/kg (for individual compound)



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No. GZSL1412138571TX

Date: Jan 06, 2015

Page 6 of 11

Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.

In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.

The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.

Phthalates

Test Method: As according to EN15777:2009. Analysis was conducted by GC-MS.

Phthalates	CAS No.	Result (mg/kg)	
		<u>1</u>	
Dibutyl Phthalate (DBP)	84-74-2	ND	
Benzylbutyl Phthalate (BBP)	85-68-7	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	ND	
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	ND	
Di-n-octyl Phthalate (DNOP)	117-84-0	ND	
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	ND	

Note: ND= not detected

Detection limit:

DBP, BBP, DEHP and DNOP = 30 mg/kg (for individual compound)

DINP and DIDP = 100 mg/kg (for individual compound)



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No. GZSL1412138571TX

Date: Jan 06, 2015

Page 7 of 11

Allergeneous and Carcinogenic Dyestuff

1. Carcinogenic Dye

Test Method: With reference to DIN 54231:2005 - Analysis was conducted with HPLC-DAD-MSD.

Carcinogenic Dyes		Result (mg/kg)	Recommended Max. Limit (mg/kg)
	CAS No.	1	
C.I. Acid Red 26 (Structure No: C.I. 16 150)	3761-53-3	n.d.	n.d.
C.I. Basic Red 9 (Structure No: C.I. 42 500)	569-61-9	n.d.	n.d.
C.I. Direct Black 38 (Structure No: C.I. 30 235)	1937-37-7	n.d.	n.d.
C.I. Direct Blue 6 (Structure No: C.I. 22 610)	2602-46-2	n.d.	n.d.
C.I. Direct Red 28 (Structure No: C.I. 22 120)	573-58-0	n.d.	n.d.
C.I. Basic Violet 14 (Structure No: C.I. 42 510)	632-99-5	n.d.	n.d.
C.I. Disperse Orange 11 (Structure No: C.I. 60 700)	82-28-0	n.d.	n.d.
C.I. Disperse Blue 1 (Structure No: C.I. 64 500)	2475-45-8	n.d.	n.d.
C.I. Disperse Yellow 3 (Structure No: C.I. 11 855)	2832-40-8	n.d.	n.d.
Conclusion		Pass	

Note: n.d. = not detected *= exceed the limit

Detection Limit = 15 mg/kg or 1mg/L in extract (for individual compound)

 $^{\#}$ = Exceeds the relevant requirement of 2 / 3-composite mix.

Remark: Test was conducted on composite of random parts of the item as per client's

request and the test result is the overall result.



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No. GZSL1412138571TX

Date: Jan 06, 2015

Page 8 of 11

2. Allergeneous Disperse Dyes

Test Method: With reference to DIN 54231:2005 - Analysis was conducted with HPLC-DAD-MSD.

Disperse Dyes		Result (mg/kg)	Recommended Max. Limit (mg/kg)
	CAS No.	<u>(mg/kg/</u> 1	wax. Limit (mg/kg)
C.I. Disperse Blue 1 (Structure No: C.I. 64 500)	2475-45-8	n.d.	50
C.I. Disperse Blue 3 (Structure No: C.I. 61 505)	2475-46-9	n.d.	50
C.I. Disperse Blue 7 (Structure No: C.I. 62 500)	3179-90-6	n.d.	50
C.I. Disperse Blue 26 (Structure No: C.I. 63 305)	3860-63-7	n.d.	50
C.I. Disperse Blue 35	56524-77-7 56524-76-6	n.d.	50
C.I. Disperse Blue 102	69766-79-6 / 12222-97-8	n.d.	50
C.I. Disperse Blue 106	68516-81-4 / 12223-01-7	n.d.	50
C.I. Disperse Blue 124	61951-51-7	n.d.	50
C.I. Disperse Brown 1	23355-64-8	n.d.	50
C.I. Disperse Orange 1 (Structure No: C.I. 11 080)	2581-69-3	n.d.	50
C.I. Disperse Orange 3 (Structure No: C.I. 11 005)	730-40-5	n.d.	50
C.I. Disperse Orange 37/76	13301-61-6	n.d.	50
C.I. Disperse Red 1 (Structure No: C.I. 11 110)	2872-52-8	n.d.	50
C.I. Disperse Red 11 (Structure No: C.I. 62 015)	2872-48-2	n.d.	50
C.I. Disperse Red 17 (Structure No: C.I. 11 210)	3179-89-3	n.d.	50
C.I. Disperse Yellow 1 (Structure No: C.I. 10 345)	119-15-3	n.d.	50
C.I. Disperse Yellow 3 (Structure No: C.I. 11 855)	2832-40-8	n.d.	50
C.I. Disperse Yellow 9 (Structure No: C.I. 10 375)	6373-73-5	n.d.	50
C.I. Disperse Yellow 39	12236-29-2	n.d.	50
C.I. Disperse Yellow 49	54824-37-2	n.d.	50
Conclusion		Pass	



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Test Report No. GZSL1412138571TX Date: Jan 06, 2015 Page 9 of 11

Note: n.d. = not detected

*= exceed the limit

Detection Limit = 15 mg/kg (for individual compound)

= Exceeds the relevant requirement of 2 / 3-composite mix.

Test was conducted on composite of random parts of the item as per client's

request and the test result is the overall result.

Polyaromatic hydrocarbons (PAHs) Content

Test Method : With reference to ZEK 01.4-08 with column clean-up, GC-MS analysis

		Result
Test Item	CAS number	(mg/kg)
		<u>1</u>
Naphthalene	91-20-3	ND
Acenaphthylene	208-96-8	ND
Acenaphthene	83-32-9	ND
Fluorene	86-73-7	ND
Phenanthrene	85-01-8	ND
Anthracene	120-12-7	ND
Fluoranthene	206-44-0	ND
Pyrene	129-00-0	ND
Benz[a]anthracene	56-55-3	ND
Chrysene	218-01-9	ND
Benzo[b]fluoranthene and Benzo[j]fluoranthene	205-99-2 205-82-3	ND
Benzo[k]fluoranthene	207-08-9	ND
Benzo[a]pyrene	50-32-8	ND
Benzo[e]pyrene	192-97-2	ND
Indeno[1,2,3-cd]pyrene	193-39-5	ND
Dibenz[a,h]anthracene	53-70-3	ND
Benzo[g,h,i]perylene	191-24-2	ND
Total 18 PAHs		ND
Conclusion		Pass



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No. GZSL1412138571TX

Date: Jan 06, 2015

Page 10 of 11

ZEK 01.4-08: Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material indented to be put in the mouth or material for toys with normal skin contact for children aged < 36 months	Materials those are not included in Category 1, with predictable contact with the skin longer than 30 s. (long-term skin contact).	Materials those are not included in Category 1 or 2, with predictable skin contact up to 30 s (short-term skin contact).
Benzo[a]pyrene (mg/kg)	< 0.2***	1	20
Sum of 18 PAHs (mg/kg)**	< 0.2***	10	200

Note: < = less than

mg/kg = milligram per kilogram

ND = Not Detected

The detection limit of each of the individual compound is 0.1 mg/kg.

- * = exceeds the limit
- ** Only PAH substances >0.1 mg/kg are taken into account while calculating the sum of PAHs
- *** In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material which is indented to be put in the mouth by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

Free Formaldehyde in Liquid/Powder Samples

Test Method: In-house method (GZTC-CHEM-TOP-059-03), analysis was performed by UV-Vis.

	Result (mg/kg)
	1
Formaldehyde	ND

Note: ND = not detected

Detection limit = 5 mg/kg



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Date: Jan 06, 2015 Page 11 of 11

Sample Photo



*** End of Report ***



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Test Report No. XMNEC1801131901 Date: 04 Sep 2018 Page 1 of 6

HUZHOU BIYOUTI TECHNOLOGY CO.,LTD NO.60-317,LUHUI ROAD,TAIHU SUBDISTRICT,CHANGXING COUNTY,HUZHOU,ZHEJIANG,CHINA(MAINLAND)

The following sample(s) was/were submitted and identified on behalf of the clients as: Natural rubber foam material

SGS Job No.: 19282874 - XM

Model No.: BYT-001

Date of Sample Received: 30 Aug 2018

Testing Period: 30 Aug 2018 - 04 Sep 2018

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 selected part of submitted sample(s), the

results of Cadmium, Lead, Mercury, 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. Xiamen Branch

Sunny Lu

Approved Signatory

Sunny Lu



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Test Report No. XMNEC1801131901 Date: 04 Sep 2018 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ XMN18-011319.001 Black soft 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.

Test Item(s)	<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 (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. XMNEC18011319	901 Date: 04 Sep 2018		Page 3 of 6	
Test Item(s)	<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	
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.



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No. XMNEC1801131901

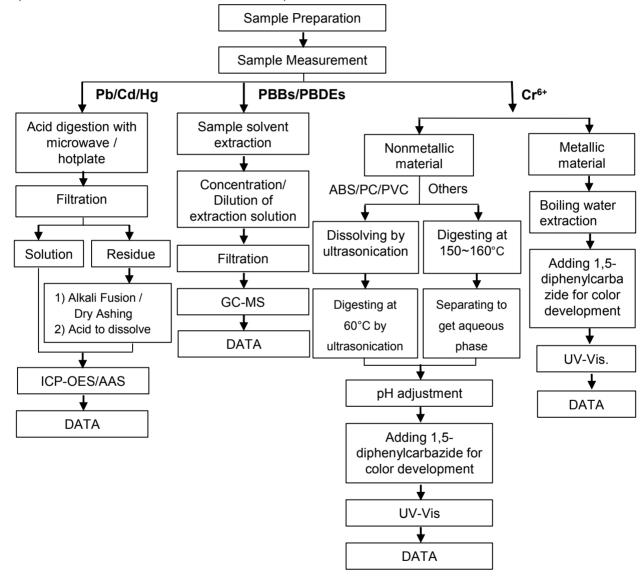
Page 4 of 6

Date: 04 Sep 2018

ATTACHMENTS

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

- 1) Name of the person who made testing: Holly Chen
- 2) Name of the person in charge of testing: Dannie Nie
- 3) 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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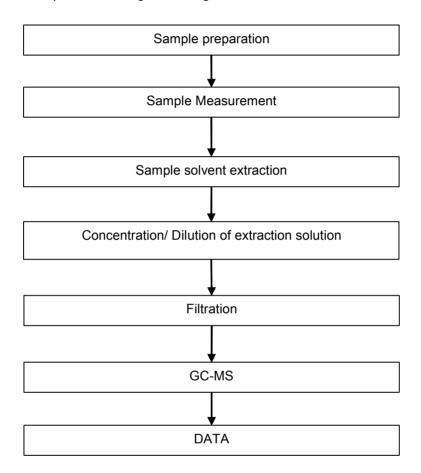
Page 5 of 6

Date: 04 Sep 2018

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Holly Chen
- 2) Name of the person in charge of testing: Dannie Nie





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No. XMNEC1801131901

Page 6 of 6

Date: 04 Sep 2018

Sample photo:



SGS authenticate the photo on original report only

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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 1 of 13

HUZHOU BIYOUTI TECHNOLOGY CO., LTD NO.63-317, LUHUI ROAD, TAIHU SUBDISTRICT, CHANGXING COUTRY, HUZHOU, ZHEJIANG, CHINA(MAINLAND)

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

Sample Description : NATURAL RUBBER FOAM MATERIAL

SGS Ref No. : XMNHG1801135101

Style / Item No. : BYT-001

Sample Receiving Date : Aug. 30, 2018

Test Performing Date : Aug. 30, 2018 to Sep. 11, 2018

Test Performed : Selected test(s) as requested by applicant

Test Result(s) : For further details, please refer to the following 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 Xiamen Branch, SGS-CSTC Co., Ltd.

Sharky Xia

Approved Signatory



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 2 of 13

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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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 3 of 13

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 ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 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 ≥ 0.1 % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.
- 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	XMN18-011351.001	Black rubber w/ multicolor(pink,coral,mauve,grey) printing backing

中国・福建・厦门・火炬(翔安)产业区翔虹路31号

Test Method:

SGS In-House method- XMTC-CHEM-TOP-022-01, XMTC-CHEM-TOP-022-02, XMTC-CHEM-TOP-022-03, analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

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

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

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),



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 4 of 13

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. Δ CAS No. of diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD): 134237-50-6, 134237-51-7, 134237-52-8.
- 7. \$\times 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 No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 5 of 13

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
1	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
1	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
1	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
1	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
1	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
1	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
1	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) $^{\triangle}$	25637-99-4,3194- 55-6	0.050
1	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
1	15	Triethyl arsenate*	15606-95-8	0.005
П	16	2,4-Dinitrotoluene	121-14-2	0.050
II	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
II	20	Anthracene oil, anthracene paste, anthracene fraction**	91995-15-2	0.050
II	21	Anthracene oil, anthracene paste, distn. lights**	91995-17-4	0.050
П	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
Ш	25	Lead chromate*	7758-97-6	0.005
Ш	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
Ш	27	Pitch, coal tar, high temp.**	65996-93-2	0.050



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 6 of 13

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
Ш	29	Ammonium dichromate*	7789-09-05	0.005
III	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*	7775-11-03	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
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*	7789-06-02	0.005



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 7 of 13

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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
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



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 8 of 13

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
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	60-09-03	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
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 9 of 13

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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
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



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 10 of 13

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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
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
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-	573-58-0	0.050
		[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-su lphonate) (C.I. Direct Red 28)		
X	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
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
Χ	150	Lead di(acetate)*	301-04-2	0.005
Χ	151	Trixylyl phosphate	25155-23-1	0.050
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 11 of 13

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
ΧI	153	Cadmium chloride*	10108-64-2	0.005
ΧI	154	Sodium perborate; perboric acid, sodium salt*	-	0.005
ΧI	155	Sodium peroxometaborate*	7632-04-04	0.005
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 ≥ 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
XVI	170	4,4' -isopropylidenediphenol (bisphenol A)	80-05-7	0.050



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Test Report No.: XMHL1808005397OT-01 Date: Sep.12, 2018 Page 12 of 13

Appendix

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
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	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
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.050
XIX	188	Ethylenediamine	107-15-3	0.050
XIX	189	Lead (Pb)	7439-92-1	0.005
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
XIX	191	Terphenylhydrogenate	61788-32-7	0.050



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No.: XMHL1808005397OT-01

Date: Sep.12, 2018

Page 13 of 13

Remark: This test report is to supersede No. XMHL1808005397OT test report which was issued on Sep . 11, 2018. And the original test reports (paper and electronic) are invalid.

Sample photo:

XMNHG1801135101



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End of Report



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