

**Eurofins Product Testing Service (Shanghai) Co., Ltd Hangzhou Branch**

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FACSIMILE TRANSMISSION

To: TAI ZHOU OXYO MERCHANDISING INC.

Attn: Mickey Dai

E-Mail: [Micky@oxyoinc.com](mailto:Micky@oxyoinc.com)

Date: May 13 , 2016

Pages Including This Cover Sheet: 15

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Re: Revised Report "EFHZ16040831-CG+Rev1"

This report cancels and supersedes report number EFHZ16040831-CG issued on May 04, 2016.

Modification description: As per client's request, resubmit black woven fabric with coating for heavy metal & formaldehyde & phthalate retest in the revised report.

Best regards



Sara Liu  
Quality Supervisor

## SAMPLE PHOTO



Style No.: C46111

# TEST REPORT

<b>Leg Avenue</b>			
<b>Vendor Name :</b>	TAIZHOU OXYO MERCHANDISING INC.		
<b>Sample Description :</b>	2PC. SWAT Officer, multi pocket utility vest, fingerless gloves		
<b>Manufacturer :</b>	TAIZHOU OXYO MERCHANDISING INC.		
<b>End Use :</b>	Costume	<b>Color :</b>	Black/ White
<b>Supplier No. :</b>	n/a	<b>PO :</b>	n/a
<b>Style No. :</b>	C46111		
<b>Labeled Fiber Content :</b>	Vest & Gloves: "100% Polyester"		
<b>Confirmed Fiber Label:</b>	As Labeled		
<b>Country Of Origin :</b>	China	<b>Country Of Destination :</b>	U.S.A.
<b>Labeled Age Range :</b>	Not Present	<b>Age Range Applied In Testing :</b>	3-14 years old
<b>Buyer's Name:</b>	Leg Avenue		
<b>Sample Receiving Date :</b>	2016-04-22	<b>Sample Resubmission Date:</b>	2016-04-28
<b>Test Performance Period :</b>	2016-04-28 to 2016-05-04, 4 Working Days		
<b>Revised Date :</b>	2016-05-13		
<b>Applicant's Submitted Care Instruction :</b>		<b>Lab Confirmed Care Instruction :</b>	
Hand Wash Cold Do Not Bleach Drip Dry Do not Iron		Hand Wash Cold Do Not Bleach Drip Dry Do not Iron	
			

**TESTED COMPONENTS LIST:**

<b>Sample #</b>	<b>Sample</b>	<b>Material</b>	<b>Color</b>
A	Vest	Textile + Metal + Plastic +Rubber	Black/ White
B	Gloves	Textile + Rubber	Black

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

**TEST SPECIFICATION :**

Test Item(s)	Pass	Fail	Remarks/Tested Component
Fiber Content	X		A, B
FTC Labeling – RN#	Present		
Use/Care Instruction	A, B: See Confirmed Care Instruction		
Dimensional Stability to Washing	X		A, B
Appearance after Washing	X		A, B
Colorfastness to Actual Laundering	X		A, B
Colorfastness to Chlorine Bleach	A, B: Not Recommend		
Colorfastness to Non-Chlorine Bleach	A, B: Recommend		
Colorfastness to Crocking	X		A, B
Physical and Mechanical Hazards – ASTM F963	X		A, B
Drawstrings in Child Upper Outerwear – ASTM F1816	X		A
Flammability – 16 CFR 1500.44	Not Applicable		
Flammability – 16 CFR 1610 / 1611	X		A: Pass B: Exempted
Phthalates Content	X		A, B
Total Lead Content in Surface Coating	X		A
Total Lead Content in Substrate	X		A, B
Total Lead Content in PVC Material	X		A
Illinois Lead Poisoning Prevention Act (LPPA) - Lead Content in Paint/Similar Surface Coating Material	X		A
Illinois Lead Poisoning Prevention Act (LPPA) - Lead Content in Substrate Materials	X		A, B
Total Mercury Content in Surface Coating	X		A
Total Heavy Metal	A: For reference; Please refer soluble heavy metal results B: Pass		
Soluble Heavy Metal	X		A
Total Cadmium Content	Not Applicable		
Formaldehyde Content	X		A, B
Mercury in Battery	Not Applicable		
Mechanical Requirement for Children's Jewelry – ASTM F2923	Not Applicable		
Lead in Children's Jewelry – ASTM F2923	Not Applicable		
Antimony, Arsenic, Barium, Cadmium, Chromium, Mercury and Selenium in Paint and Surface Coatings of Children's Jewelry – ASTM F2923	Not Applicable		
Cadmium in Certain Substrate Material of Children's Jewelry – ASTM F2923	Not Applicable		
Nickel in Metal – ASTM F2923	Not Applicable		

**Confirmed Care Instruction:**

The vest (Sample A) and gloves (Sample B) exhibit satisfactory following the care instruction "Hand Wash Cold, Do Not Bleach, Drip Dry, Do not Iron

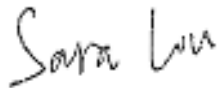


Pass – Meets Leg Avenue's Performance Standard

Fail – Fails to Meet Leg Avenue's Performance Standard

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of  
Eurofins Product Testing Service (Shanghai) Co., Ltd Hangzhou Branch



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Sara Liu  
Quality Supervisor

*Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [hz.info@eurofins.com](mailto:hz.info@eurofins.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [chinacomplaint@eurofins.com](mailto:chinacomplaint@eurofins.com) and referring to this report number.*

## TEST COMPONENT

Component No.	Component Name	Sample
1	Black woven fabric with coating	A
2	Black woven piping on collar & body & pocket	A
3	Black tape on back	A
4	Black woven safety belt	A
5	Black woven strap under black tape	A
6	Black velcro	A
7	Black elastic rubber of black elastic band on pocket	A
8	Black textile of black elastic band on pocket	A
9	Black woven lining on collar	A
10	White coating on body	A
11	Black zipper tape	A
12	Black coating on zipper slider	A
13	Silver metal zipper slider substrate	A
14	Black plastic zipper teeth	A
15	Black plastic zipper top & bottom stop	A
16	Black suede fabric on gloves	B
17	Black elastic rubber of black elastic band on gloves	B
18	Black textile of black elastic band on gloves	B

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### QUALITATIVE FIBER ANALYSIS

(AATCC 20-2013)

LABELED :	<u>A &amp; B</u>	Requirement:
	100% Polyester	Single: No Tolerance
LAB ANALYSIS :	100% Polyester	

CONFIRMED LABELED FIBER CONTENT:

Sample A & B: "As Labeled"

### RN #

(FTC)

RN#: 130015  
(See Remark)

Requirement:  
Must be Present

### **Remark:**

The information was provided by client's email.

### DIMENSIONAL STABILITY TO HAND WASH

(EUROFINS IHTM 0001, WOOLITE DETERGENT, 3 WASHES, AT 27°C/ 80°F, DRIP DRY)

	<u>Original</u> (Inch)	<u>After 3 Washes</u> (Inch)	<u>Shrinkage</u> (%)	
		<u>A</u>		Requirement: ± 5%
Front length	19.375	19.250	-0.6	
Centre back length	19.000	18.875	-0.7	
Chest	16.500	16.375	-0.8	
Across shoulder	12.250	12.125	-1.0	
		<u>B</u>		
Front	4.875	4.875	0.0	
Palm width	4.250	4.250	0.0	
Cuff width	2.750	2.750	0.0	

(+) Extension

(-) Shrinkage

\*\*\*TO BE CONTINUED\*\*\*



## TEST RESULT

### APPEARANCE AFTER HAND WASH

(AS PER CARE INSTRUCTION, WOOLITE DETERGENT, 3 WASHES, AT 27°C/ 80°F, DRIP DRY)

	<u>A</u>	<u>B</u>	Requirement:
General Appearance	Satisfactory	Satisfactory	Satisfactory
Observation	No Obvious Change	No Obvious Change	
Color Change	4.5	4.5	
Cross Staining	4.5	/	

### COLORFASTNESS TO ACTUAL LAUNDERING

(AS PER CARE INSTRUCTION, WOOLITE DETERGENT, 3 WASHES, AT 27°C/ 80°F, DRIP DRY, MULTIFIBER NO. 10)

	<u>A</u>	<u>B</u>	Requirement:
<u>COLOR STAIN ON</u>			
ACETATE	4.5	4.5	Color Staining: Class 3.0
COTTON	4.5	4.5	
NYLON	4.5	4.5	
POLYESTER	4.5	4.5	
ACRYLIC	4.5	4.5	
WOOL	4.5	4.5	
CROSS STAINING	4.5	/	

### COLORFASTNESS TO CHLORINE BLEACH

(AATCC TS-001)

	<u>A &amp; B</u>	Requirement:
COLOR CHANGE	3.5	Class 4.0

### COLORFASTNESS TO NON-CHLORINE BLEACH

(AATCC TS-001)

	<u>A &amp; B</u>	Requirement:
COLOR CHANGE	4.5/4.5	Class 4.0
POWDER / LIQUID		

### COLORFASTNESS TO CROCKING

(AATCC8-2013, AATCC GRAY SCALE)

	<u>A</u>	<u>B</u>	Requirement:
DRY (COLOR STAIN)	4.5	3.5	Class 3.5
WET (COLOR STAIN)	4.5	4.5	Class 3.0

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### PHYSICAL / MECHANICAL HAZARDS

(ASTM F963-11, SECTION 4.1, 4.3.7, 4.7, 4.9, 4.27)

A & B  
Comply

Requirement:  
Meet Requirement

### DRAWSTRINGS IN CHILD UPPER OUTERWEAR

(ASTM F1816-97(R2009), SECTION 4.1)

A  
Comply

Requirement:  
Meet Requirement

### FLAMMABILITY OF TEXTILES

(CPSA 16 CFR 1610)

B  
Exempt  
(See Remark 1)

Requirement:  
Class 1

#### **Remark:**

1. According to 16 CFR 1610.6 (vi): narrow fabrics and loose fibrous materials manufactured less than 50 mm (2 in) in width in either direction shall not be tested.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Flammability Test

Test Method: Flammability test on Clothing Textiles (16 CFR 1610)

Sample	Burning Time(sec)	Classification
A	See worksheet below	Class 1

#### Classification:

Class 1: Normal Flammability

Class 2: Intermediate Flammability

Class 3: Rapid and Intense Burning

### FLAMMABILITY (16 CFR 1610)

**SAMPLE DESCRIPTION:**    A- Black woven fabric with coating

**DIRECTION TO BE TESTED:** Raised Surface Lengthwise (From Preliminary Test)

**ORIGINAL**
**AFTER DRYCLEANING/WASHING**

TIME OF FLAME SPREAD (s)	BURN CODE	TIME OF FLAME SPREAD (s)	BURN CODE
1     _____ / _____	1     _____ DNI _____	P1    _____ / _____	P1    _____ DNI _____
2     _____ / _____	2     _____ DNI _____	P2    _____ / _____	P2    _____ DNI _____
3     _____ / _____	3     _____ DNI _____	P3    _____ / _____	P3    _____ DNI _____
4     _____ / _____	4     _____ DNI _____	P4    _____ / _____	P4    _____ DNI _____
5     _____ / _____	5     _____ DNI _____	P5    _____ / _____	P5    _____ DNI _____
AVG. / SECONDS FOR / SPECIMENS		AVG. / SECONDS FOR / SPECIMENS	
6     _____ / _____	6     _____ / _____	P6    _____ / _____	P6    _____ / _____
7     _____ / _____	7     _____ / _____	P7    _____ / _____	P7    _____ / _____
8     _____ / _____	8     _____ / _____	P8    _____ / _____	P8    _____ / _____
9     _____ / _____	9     _____ / _____	P9    _____ / _____	P9    _____ / _____
10    _____ / _____	10    _____ / _____	P10   _____ / _____	P10   _____ / _____

AVG. / SECONDS FOR / SPECIMENS

AVG. / SECONDS FOR / SPECIMENS

SF	SURFACE FLASH ONLY	IBE	IGNITE BUT EXTINGUISHED
DNI	DID NOT IGNITE	BB	BASE BURN
SFBB	SURFACE FLASH - BASE BURN	TSF	TIMED SURFACE FLASH
SF poi	SURFACE FLASH, AT POINT OF IMPINGEMENT ONLY		
SF pw	SURFACE FLASH, PART WAY. NO TIME SHOWN BECAUSE THE SURFACE FLASH, DID NOT REACH THE CORD		
SF uc	SURFACE FLASH, UNDER THE CORD, BUT DOES NOT BREAK THE CORD		
00 SFBB	TIME IN SECONDS, SURFACE FLASH BASE BURN-BASE STARTS BURNING AT POINTS OTHER THAN THE POINT OF IMPINGEMENT		
0.0 SFBB poi	TIME IN SECONDS, SURFACE FLASH, BASE BURN STARTING AT THE POINT OF IMPINGEMENT		

**COMMENTS:**    Pass Class 1, Normal Flammability Of Commercial Standard 16 CFR 1610, Formerly 191-53 of United States Flammability Fabric Act.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### PHTHALATES CONTENT

(CPSC-CH-C1001-09.3)

Parameters	CAS No.	Unit	Requirement	Test Result			
				1 <sup>#</sup>	7	10	12
Dibutyl phthalate (DBP)	84-74-2	%	0.1	<0.005	<0.005	<0.005	<0.005
Butyl benzyl phthalate (BBP)	85-68-7	%	0.1	<0.005	<0.005	<0.005	<0.005
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.1	<0.005	<0.005	<0.005	<0.005
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.1	<0.005	<0.005	<0.005	<0.005
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.1	<0.005	<0.005	<0.005	<0.005
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.1	<0.005	<0.005	<0.005	<0.005
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.1	<0.005	<0.005	<0.005	<0.005
Diethylphthalate (DEP)	84-66-2	%	0.1	<0.005	<0.005	<0.005	<0.005
Dicyclohexyl ortho-phthalate (DCHP)	84-61-7	%	0.1	<0.005	<0.005	<0.005	<0.005
Monobutyl phthalate (MBP)	131-70-4	%	0.1	<0.005	<0.005	<0.005	<0.005
Di-n-pentyl phthalate (DNPP)	131-18-0	%	0.1	<0.005	<0.005	<0.005	<0.005
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	<0.005	<0.005	<0.005	<0.005
Diisooctyl phthalate (DIOP)	27554-26-3	%	0.1	<0.005	<0.005	<0.005	<0.005

Parameters	CAS No.	Unit	Requirement	Test Result		
				14	15	17
Dibutyl phthalate (DBP)	84-74-2	%	0.1	<0.005	<0.005	<0.005
Butyl benzyl phthalate (BBP)	85-68-7	%	0.1	<0.005	<0.005	<0.005
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	%	0.1	<0.005	<0.005	0.045
Di-iso-nonyl phthalate (DINP)	28553-12-0	%	0.1	<0.005	<0.005	<0.005
Di-n-octyl phthalate (DNOP)	117-84-0	%	0.1	<0.005	<0.005	<0.005
Di-iso-decyl phthalate (DIDP)	26761-40-0	%	0.1	<0.005	<0.005	<0.005
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.1	<0.005	<0.005	<0.005
Diethylphthalate (DEP)	84-66-2	%	0.1	<0.005	<0.005	<0.005
Dicyclohexyl ortho-phthalate (DCHP)	84-61-7	%	0.1	<0.005	<0.005	<0.005
Monobutyl phthalate (MBP)	131-70-4	%	0.1	<0.005	<0.005	<0.005
Di-n-pentyl phthalate (DNPP)	131-18-0	%	0.1	<0.005	<0.005	<0.005
Diisobutyl phthalate (DIBP)	84-69-5	%	0.1	<0.005	<0.005	<0.005
Diisooctyl phthalate (DIOP)	27554-26-3	%	0.1	<0.005	<0.005	<0.005

<sup>#</sup>Indicate retest result.

### TOTAL LEAD CONTENT IN PVC MATERIAL

(CPSC-CH-E1002-08.3)

Tested Item(s)	Test Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	1 <sup>#</sup>		
Total Lead	ND	10	30

Note:

- ND = not detected, less than MDL
- MDL = method detection limit
- mg/kg = milligram per kilogram
- <sup>#</sup>Indicate retest result.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### TOTAL HEAVY METALS TEST

(EPA 3050B/ EPA 3052)

Tested Item(s)		Test Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
		1 <sup>#</sup>	7	13	14	15	17		
Total Antimony	Sb	100*	ND	ND	ND	ND	ND	5	60
Total Arsenic	As	ND	ND	ND	ND	ND	ND	5	25
Total Barium	Ba	ND	52100*	37	ND	ND	ND	10	1000
Total Cadmium	Cd	ND	ND	ND	ND	ND	ND	5	75
Total Chromium	Cr	ND	ND	ND	ND	ND	ND	5	60
Total Lead	Pb	ND	11	28	ND	ND	27	10	90
Total Mercury	Hg	ND	ND	ND	ND	ND	ND	5	60
Total Selenium	Se	ND	ND	ND	ND	ND	ND	10	500
Total Nickel	Ni	ND	ND	ND	ND	ND	ND	5	60

Tested Item(s)		Test Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
		10	12		
Total Antimony	Sb	15	ND	5	60
Total Arsenic	As	ND	ND	5	25
Total Barium	Ba	245000*	ND	10	1000
Total Cadmium	Cd	ND	ND	5	75
Total Chromium	Cr	ND	22	5	60
Total Lead	Pb	ND	30	10	90
Total Mercury	Hg	ND	ND	5	10
Total Selenium	Se	ND	ND	10	500
Total Nickel	Ni	ND	ND	5	60

\* The result was found to be more than the permissible limit.

#Indicate retest result.

### SOLUBLE HEAVY METALS TEST

(ASTM F963-11)

Tested Item(s)		Test Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
		1 <sup>#</sup>	7	10		
Soluble Antimony	Sb	ND	ND	ND	5	60
Soluble Arsenic	As	ND	ND	ND	2.5	25
Soluble Barium	Ba	ND	398	141	10	1000
Soluble Cadmium	Cd	ND	ND	ND	5	75
Soluble Chromium	Cr	ND	ND	ND	5	60
Soluble Lead	Pb	ND	ND	ND	5	90
Soluble Mercury	Hg	ND	ND	ND	5	60
Soluble Selenium	Se	ND	ND	ND	10	500

Note:

- ND = not detected, less than MDL
- MDL = method detection limit
- mg/kg = milligram per kilogram
- #Indicate retest result.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Illinois Lead Poisoning Prevention Act (LPPA) - Lead Content in Paint/Similar Surface Coating Material

(CPSC-CH-E1003-09.1)

Tested Item(s)	Test Result (mg/kg)		MDL (mg/kg)	Limit (mg/kg)
	10	12		
Total Lead	ND	30	10	40

Note:

- ND = not detected, less than MDL
- MDL = method detection limit
- mg/kg = milligram per kilogram

### Illinois Lead Poisoning Prevention Act (LPPA) - Lead Content in Substrate Materials

(CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3)

Tested Item(s)	Test Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	1 <sup>#</sup>	7	13	14	15	17		
Total Lead	ND	11	28	ND	ND	27	10	40

Note:

- ND = not detected, less than MDL
- MDL = method detection limit
- mg/kg = milligram per kilogram
- <sup>#</sup>Indicate retest result.

### FORMALDEHYDE CONTENT

(ISO 14184-1: 2011)

Tested Item(s)	Test Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	1 <sup>#</sup>	2	3	4	5		
Formaldehyde	ND	ND	ND	ND	ND	16	75

Tested Item(s)	Test Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	6	8	9	11	16	18		
Formaldehyde	ND	ND	ND	ND	ND	ND	16	75

Note:

- ND = not detected, less than MDL
- MDL = method detection limit
- mg/kg = milligram per kilogram
- <sup>#</sup>Indicate retest result.

\*\*\* END OF THE REPORT \*\*\*

**Laboratory Summary Information for Certificate of Compliance (COC)**

I (we) hereby confirm based on the test results in this report, that the product or components described below were tested and comply with the applicable rules, bans, regulations and standards under the CPSIA (Consumer Product Safety Improvement Act) or any other Act enforced by the CPSC and checked on the list below.

**Product/Component description provided by submitter:**

2PC. SWAT Officer, multi pocket utility vest, fingerless gloves

Style No.: C46111

**Safety Regulation Citations**

- Wearing Apparel Flammability 16 CFR 1610
  - Sample is exempt from flammability testing in accordance with:
    - For plain fabric, if fabric weight is larger than 2.6 oz/yd<sup>2</sup>
    - If materials are acrylic, modacrylic, nylon, polyester, olefin and wool or combined
    - Gloves, hats and footwear
  - Narrow fabrics and loose fibrous materials manufactured less than 50 mm (2 in) or 50 mm by 150 mm (2 in by 6 in) specimen cannot be cut due to the nature of the item
  - Clothing and fabrics are not intended to be used for clothing
- Flammability Standard for Children's Sleepwear 16CFR 1615 and 1616
- Small Parts 16 C.F.R Part 1501 and 1500.50 - 53
- Sharp Points and Edges 16CFR 1500.48 and 49
- Lead Paint Ban 16 C.F.R. 1303
- Lead in surface coating CPSIA Section 101
- Lead in substrate CPSIA Section 101
- Federal Hazardous Substances Act 15 U.S.C 1261
- Phthalates CPSIA Section 108

**Date of testing:**

**Date of TP testing: 2016-04-22 to 2016-05-13**

**TPCA (Third Party Conformity Assessment Body):**

**Place of TP testing: Hangzhou**

**Test Report No.: EFHZ16040831-CG+Rev1**

**TPCA name: Eurofins Product Testing Service (Shanghai) Co., Ltd Hangzhou Branch**

**TPCA address: 2/F, 4th Building, Huaye Hi-tech Industrial Park, No.1180 Bin'an Road.**

**TPCA telephone number: 86-571-81907010**

**The information on this sheet is ONLY applicable for the item tested in this report.**

**\* This is for Summary Information only. Supplier must prepare COC based on the format provided by Leg Avenue.**