


The following information was submitted and identified by/on behalf of the client as:

- Applicant : Mid Ocean Brands B.V.
- Address : Unit 201, 2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong.
- Sample Name : KNIT STYLUS GLOVE
- Sample Model : MO7947
- Receive Date : May. 11, 2017
- Testing period : May. 11, 2017 - May. 17, 2017 & May. 19, 2017 - May. 25, 2017
- Test Requested : 1. As specified by client, determination of Lead(Pb) content in the submitted sample(s) according to Annex XVII items 63 of the REACH Regulation (EC) No. 1907/2006 & its amendment (EU) No. 836/2012, (EU) No. 2015/628.  
2. As specified by client, determination of AZO-dyes content in the submitted sample(s) according to Annex XVII items 43 of the REACH Regulation (EC) No. 1907/2006 & amended (EC) No. 552/2009 (Namely former Directive 2002/61/EC).  
3. As specified by client, determination of the Color Fastness to rubbing of the submitted sample(s).
- Test Method : Please refer to the next page(s).
- Test Result(s) : Please refer to the next page(s).
- Conclusion(s) : 1. The test result(s) in the submitted sample(s) **Complies with** requirements on Lead(Pb) content in Annex XVII items 63 of the REACH Regulation (EC) No. 1907/2006 & its amendment (EU) No. 836/2012, (EU) No. 2015/628.  
2. The test result(s) in the submitted sample(s) **Complies with** requirements on AZO-dyes in Annex XVII items 43 of the REACH Regulation (EC) No. 1907/2006 & amended (EC) No. 552/2009 (Namely former Directive 2002/61/EC).

Authorized signature:



Lab Manager: Gavin Zhou



May. 25, 2017

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**Test Result(s):**
**Test Sample Description**

Material No.	Sample Name	Material Description	Location
<u>01</u>	KNIT STYLUS GLOVE	Red fabric	Main body of glove
<u>02</u>		Gray white fabric	Finger head part of glove

**1. Lead(Pb) content**

**Test Method:** US EPA 3052: 1996 Microwave assisted acid digestion of siliceous and organically based matrices & US EPA 6010C: 2007 Inductively Coupled Plasma-Atomic Emission Spectrometry

<u>Material No.</u>	<u>Lead(Pb)</u>				<u>Conclusion(s)</u>
	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>Result(s)</u>	
<u>01</u>	mg/kg	10	500	N.D.	PASS
<u>02</u>	mg/kg	10	500	N.D.	PASS

- Note:**
- 1000mg/kg = 0.1%;
  - MDL = Method Detection Limit;
  - N.D. = Not Detected (<MDL).

**2. AZO-dyes content**

**Test Method:** EN14362-1 & -3: 2012

Textiles-Methods for determination of certain aromatic amines derived from azo colorants

<u>Item No.</u>	<u>Test Items</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>01</u>	<u>02</u>
1	4-aminobiphenyl	92-67-1	mg/kg	5	30	N.D.	N.D.
2	benzidine	92-87-5	mg/kg	5	30	N.D.	N.D.
3	4-chloro-o-toluidine	95-69-2	mg/kg	5	30	N.D.	N.D.
4	2-naphthylamine	91-59-8	mg/kg	5	30	N.D.	N.D.
5	o-aminoazotoluene <sup>#a</sup>	97-56-3	mg/kg	5	30	N.D.	N.D.
6	5-nitro-o-toluidine <sup>#a</sup>	99-55-8	mg/kg	5	30	N.D.	N.D.
7	4-chloroaniline	106-47-8	mg/kg	5	30	N.D.	N.D.
8	4-methoxy-m-phenylenediamine	615-05-4	mg/kg	5	30	N.D.	N.D.
9	4,4'-diaminophenylmethane	101-77-9	mg/kg	5	30	N.D.	N.D.
10	3,3'-dichlorobenzidine	91-94-1	mg/kg	5	30	N.D.	N.D.
11	3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	30	N.D.	N.D.
12	3,3'-dimethylbenzidine	119-93-7	mg/kg	5	30	N.D.	N.D.

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<u>Item No.</u>	<u>Test Items</u>	<u>CAS No.</u>	<u>Unit</u>	<u>MDL</u>	<u>Limit</u>	<u>01</u>	<u>02</u>
13	4,4'-methylenedi-o-toluidine	838-88-0	mg/kg	5	30	N.D.	N.D.
14	6-methoxy-m-toluidine	120-71-8	mg/kg	5	30	N.D.	N.D.
15	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	mg/kg	5	30	N.D.	N.D.
16	4,4'-oxydianiline	101-80-4	mg/kg	5	30	N.D.	N.D.
17	4,4'-thiodianiline	139-65-1	mg/kg	5	30	N.D.	N.D.
18	o-Tolidine	95-53-4	mg/kg	5	30	N.D.	N.D.
19	4-methyl-m-phenylenediamine	95-80-7	mg/kg	5	30	N.D.	N.D.
20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	N.D.	N.D.
21	o-anisidine	90-04-0	mg/kg	5	30	N.D.	N.D.
22	4-aminoazobenzene <sup>#b</sup>	60-09-3	mg/kg	5	30	N.D.	N.D.
<b><u>Conclusion(s)</u></b>						PASS	PASS

- Note:**
1. MDL = Method Detection Limit;
  2. N.D. = Not Detected (<MDL);
  3. a. The CAS numbers 97-56-3 (No. 5) and 99-55-8 (No. 6) are further reduced to CAS numbers 95-53-4 (No. 18) and 95-80-7 (No. 19).  
 b. Azo colorants that are able to form 4-aminoazobenzene (No. 22), generate under the condition of this method aniline (CAS number 62-53-3) and 1,4-phenylenediamine(CAS number 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN 14362-3.

### 3. Color Fastness to rubbing

**Test Method:** EN ISO 105-X12: 2016

Textiles – Tests for color fastness – Part X12: Color fastness to rubbing

<u>Sample No.</u>	<u>Test Item</u>	<u>Test Result(s) (Grade)</u>
<b><u>01</u></b>	Color Fastness to rubbing	Dry: 4-5
		Wet: 4-5
<b><u>02</u></b>	Color Fastness to rubbing	Dry: 4-5
		Wet: 4-5

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**Sample Photo(s):**



GIG authenticate the photo(s) on original report only

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

# ORIGINAL

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