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Analytical Report Nr. AR-24-YL-006224-01
Date 06-Jun-2024

ANALYTICAL REPORT

Client Information

Mid Ocean Brands BV
Wellensiekstraat 2
Ede GLD (NETHERLANDS)

For the attention of Bernadetta Kobluk

Order Information

Order Code:	EFYL24050506
Reception Date:	29-May-2024
Analysis Starting Date:	29-May-2024
Analysis Ending Date:	06-Jun-2024
Overall Conclusion:	Pass
Decision Rule:	Shared risk - Simple acceptance. Probability of False Acceptance <50%
Sample(s) description	Sweaters and jumpers

Additional information of the order(2)

Eurofins Textile Testing Spain, S.L.U.
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Phone +34966299638
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ENAC is signatory of EA and ILAC Multilateral Agreement for testing. Activities not covered by ENAC accreditation are marked with♦○●□■*

ilac-MRA

ENAC
ENSAYO
ISO 17025
Nº1289 / LE2439

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Sample Information

ID	Sample Code	Client Reference(2)	Additional Information(2)
A	560-2405-01237	CG1013 / CG1014 / CG1016 / CG1017 / CG1012	

COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS
A1	Blue fabric	Textile	Blue	
A2	White fabric	Textile	White	
A3	Purple cord	Textile	Purple	
A4	White cord	Textile	White	
A5	Zipper teeth	Plastic	White	
A6	Zipper teeth	Plastic	Blue	
A7	Plastic puller	Plastic	Blue	

SAMPLE PICTURE

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CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
Colour fastness to rubbing ISO 105-X12:2016			
A1			Not applicable
♦ **Determination of Polycyclic Aromatic Hydrocarbons (PAHs)** AfPS GS 2019:01 PAK			
A5 & A6 & A7	X		
Determination of azo dyes EN ISO 14362-1:2017			
A1 & A2	X		
A3 & A4	X		
Lead content in non-metal products CPSC-CH-E1002-08.3			
A1 & A2	X		
A3 & A4	X		
Determination of Cadmium (Non metallic products) Internal Method based on CPSC-CH-C1002-08.3			
A5 & A6 & A7	X		
Determination of the phthalate content — Tetrahydrofuran method ISO 14389:2022			
A5 & A6 & A7	X		

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RESULTS

Colour fastness to rubbing
ISO 105-X12:2016

ID	A1	Requirements:	**No requirements**

Parameter	RESULTS	GUIDELINES
Type of finger	Cylindrical finger	
Conditioning	4h - 20 ± 2ºC; 65 ± 4% H.r.	
Test temperature	20.2 °C	
Test humidity	65.3 %	
Staining on dry lenghtwise	4-5	
Staining on dry crosswise	4-5	
Staining on wet lenghtwise	4-5	
Staining on wet crosswise	4-5	

Remarks:
Applied force 9 ± 0.2 N
Water absorption rate for wet test: Between 95% and 100%
Conditioning: At least 4h at 20±2 ºC and 65 ±4 %
Test conditions: 20±2 ºC and 65 ±4 %

Analysis Ending Date: 06/06/2024

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♦ **Determination of Polycyclic Aromatic Hydrocarbons (PAHs)**
AfPS GS 2019:01 PAK

ID	A5 & A6 & A7	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES	
Acenaphthene	83-32-9	<0.04 mg/kg	0.04		
Acenaphthylene	208-96-8	<0.04 mg/kg	0.04		
Fluorene	86-73-7	<0.04 mg/kg	0.04		
Phenanthrene	85-01-8	<0.04 mg/kg	0.04		
Anthracene	120-12-7	<0.04 mg/kg	0.04		
Fluoranthene	206-44-0	<0.04 mg/kg	0.04		
Pyrene	129-00-0	<0.04 mg/kg	0.04	<0.5 mg/kg	✔PASS
Benz(a)anthracene	56-55-3	<0.04 mg/kg	0.04	<0.5 mg/kg	✔PASS
Chrysene	218-01-9	<0.04 mg/kg	0.04	<0.5 mg/kg	✔PASS
Benzo(a)pyrene	50-32-8	<0.04 mg/kg	0.04	<0.5 mg/kg	✔PASS
Benzo(e)pyrene	192-97-2	<0.04 mg/kg	0.04	<0.5 mg/kg	✔PASS
Benzo(g,h,i)perylene	191-24-2	<0.04 mg/kg	0.04		
Naphthalene	91-20-3	<0.04 mg/kg	0.04		
BbF + BkF + BjF	-	< 0.5 mg/kg	0.12	<0.5 mg/kg	✔PASS
Indeno[1,2,3-cd]pyrene + Dibenz[a,h]anthracene	-	<0.08 mg/kg	0.08		
Dibenzo(a,l)pyrene	191-30-0	<0.04 mg/kg	0.04		
Dibenzo(a,e)pyrene	192-65-4	<0.04 mg/kg	0.04		
Dibenzo(a,i)pyrene	189-55-9	<0.04 mg/kg	0.04		
Dibenzo(a,h)pyrene	189-64-0	<0.04 mg/kg	0.04		
1-methylpyrene	2381-21-7	<0.04 mg/kg	0.04		
Cyclopenta(c,d)pyrene	27208-37-3	<0.04 mg/kg	0.04		

Remarks:
Extraction solvent: Toluene
Ultrasonic batch extraction, 1h at 60ºC.
Analytical method technique: GC-MS/MS
BbF: Benzo[b]fluoranthene CAS: 205-99-2
Bkf: Benzo[k]fluoranthene CAS: 207-08-9
BjF: Benzo[j]fluoranthene CAS: 205-82-3
Indeno[1,2,3-cd]pyrene: CAS: 139-39-5
Dibenz[a,h]anthracene: CAS: 53-70-3

Analysis Ending Date: 03/06/2024

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Determination of azo dyes
EN ISO 14362-1:2017

ID	A1 & A2	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES
4-Aminobiphenyl	92-67-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
Benzidin	92-87-5	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4-Chlorotoluidine	95-69-2	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2-Naphthylamine	91-59-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
p-Chloroaniline	106-47-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4-Diaminoanisole	615-05-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4,4-Diaminodiphenylmethan	101-77-9	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
3,3-Dichlorobenzidine	91-94-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
3,3-Dimethoxybenzidine	119-90-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
3,3-Dimethylbenzidine	119-93-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
3,3-Dimethyl-4,4-diaminodiphenylmethane	838-88-0	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
p-Cresidine	120-71-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4,4-Methylene-bis-2-chloroaniline	101-14-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4-Aminophenileter	101-80-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4,4-Thiodianilin	139-65-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
o-Toluidin	95-53-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4-Diaminotoluene	95-80-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4,5-Trimethylaniline	137-17-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
o-Anisidine	90-04-0	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4-Xylidine	95-68-1	<5 mg/kg	5	
2,6-Xylidine	87-62-7	<5 mg/kg	5	
Aniline *	62-53-3	<5 mg/kg	5	

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ID	A1 & A2	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES
1-4-phenylenediamine *	106-50-3	<5 mg/kg	5	
4-Chloro-o-toludinium chloride *	3165-93-3	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2-Naphthylammoniumacetate *	553-00-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4-Methoxy-m-phenylene Diammonium Sulphate *	39156-41-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4,5-Trimethylaniline hydrochloride *	21436-97-5	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓

Remarks:
Detection and quantification method: GC/MS.
Sampling procedure: Section 9 EN ISO 14362-1:2017.
Evaluation Procedure - Point 10.1 (EN ISO 14362-1:2017).
*Parameters not covered by the accreditation scope
o-aminoazotoluene and 5-nitro-o-toluidine are further reduced to o-toluidine and 2,4-diaminotoluene.
Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS number 62-53-3) and 1,4 phenylendiamine (CAS-number 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN ISO 14362-3.

Analysis Ending Date: 03/06/2024

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ID	A3 & A4	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES
4-Aminobiphenyl	92-67-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
Benzidin	92-87-5	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4-Chlorotoluidine	95-69-2	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2-Naphthylamine	91-59-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
p-Chloroaniline	106-47-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4-Diaminoanisole	615-05-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4,4-Diaminodiphenylmethan	101-77-9	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
3,3-Dichlorobenzidine	91-94-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
3,3-Dimethoxybenzidine	119-90-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
3,3-Dimethylbenzidine	119-93-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
3,3-Dimethyl-4,4-diaminodiphenylmethane	838-88-0	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
p-Cresidine	120-71-8	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4,4-Methylene-bis-2-chloroaniline	101-14-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4-Aminophenileter	101-80-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4,4-Thiodianilin	139-65-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
o-Toluidin	95-53-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4-Diaminotoluene	95-80-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4,5-Trimethylaniline	137-17-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
o-Anisidine	90-04-0	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4-Xylidine	95-68-1	<5 mg/kg	5	
2,6-Xylidine	87-62-7	<5 mg/kg	5	
Aniline *	62-53-3	<5 mg/kg	5	
1-4-phenylenediamine *	106-50-3	<5 mg/kg	5	

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ID	A3 & A4	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES
4-Chloro-o-toludinium chloride *	3165-93-3	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2-Naphthylammoniumacetate *	553-00-4	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
4-Methoxy-m-phenylene Diammonium Sulphate *	39156-41-7	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓
2,4,5-Trimethylaniline hydrochloride *	21436-97-5	<5 mg/kg	5	REACH : < 30 mg/kg PASS ✓

Remarks: Detection and quantification method: GC/MS.
Sampling procedure: Section 9 EN ISO 14362-1:2017.
Evaluation Procedure - Point 10.1 (EN ISO 14362-1:2017).
*Parameters not covered by the accreditation scope
o-aminoazotoluene and 5-nitro-o-toluidine are further reduced to o-toluidine and 2,4-diaminotoluene.
Azo colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline (CAS number 62-53-3) and 1,4 phenylendiamine (CAS-number 106-50-3). Due to detection limits, only aniline may be detected. The presence of these colorants should be tested by EN ISO 14362-3.

Analysis Ending Date: 03/06/2024

Lead content in non-metal products
CPSC-CH-E1002-08.3

ID	A1 & A2	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES
Lead (Pb)	7439-92-1	<0.0005 %	0.0005	REACH: <0.05 % ✓PASS

Remarks: Analytical method technique: ICP-MS

Analysis Ending Date: 03/06/2024

ID	A3 & A4	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES
Lead (Pb)	7439-92-1	<0.0005 %	0.0005	REACH: <0.05 % ✓PASS

Remarks: Analytical method technique: ICP-MS

Analysis Ending Date: 03/06/2024

Determination of Cadmium (Non metallic products)
Internal Method based on CPSC-CH-C1002-08.3

ID	A5 & A6 & A7	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES
Cadmium (Cd)	7440-43-9	<0.0005 %	0.0005	REACH: <0.01 % ✓PASS

Remarks: Analytical method technique: ICP-MS

Analysis Ending Date: 05/06/2024

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Determination of the phthalate content — Tetrahydrofuran method
ISO 14389:2022

ID	A5 & A6 & A7	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES	
Diisononyl phthalate (DINP)	68515-48-0	<50 µg/g	50	<1000 µg/g	✔PASS
Diethylhexylphthalate (DEHP)	117-81-7	<50 µg/g	50	<1000 µg/g	✔PASS
Di-n-octylphthalate (DNOP)	117-84-0	<50 µg/g	50	<1000 µg/g	✔PASS
Phthalic acid, bis-iso-decyl ester (DIDP)	26761-40-0	<50 µg/g	50	<1000 µg/g	✔PASS
Butylbenzylphtalate (BBP)	85-68-7	<50 µg/g	50	<1000 µg/g	✔PASS
Dibutylphthalate (DBP)	84-74-2	<50 µg/g	50	<1000 µg/g	✔PASS
Di-isobutyl phthalate (DiBP)	84-69-5	<50 µg/g	50	<1000 µg/g	✔PASS
Dipentylphtalate (DPP)	131-18-0	<50 µg/g	50	<1000 µg/g	✔PASS
Diisoheptyl phthalate (DIHP)	71888-89-6	<50 µg/g	50	<1000 µg/g	✔PASS
Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	<50 µg/g	50	<1000 µg/g	✔PASS
Diethylphtalate (DEP) *	84-66-2	<50 µg/g	50		
Di-(isopentyl)phthalate (DiPP) *	605-50-5	<50 µg/g	50	<1000 µg/g	✔PASS
Heptylnonylundecyl phthalate (DHNUP) *	68515-42-4	<50 µg/g	50	<1000 µg/g	✔PASS
n-Pentylisopentyl phthalate (nPiPP) *	776297-69-9	<50 µg/g	50	<1000 µg/g	✔PASS
Dimethylphtalate (DMP) *	131-11-3	<50 µg/g	50		
Benzylbenzoate (BB) *	120-51-4	<50 µg/g	50		
Di-n-hexyl phthalate (DHP) *	84-75-3	<50 µg/g	50	<1000 µg/g	✔PASS
1,2-Benzenedicarboxylic acid, dihexyl ester *	68515-50-4	<50 µg/g	50	<1000 µg/g	✔PASS
Diisooctylphthalates (DIOP) *	27554-26-3	<50 µg/g	50		
1,2-Benzenedicarboxylic Acid.Mixed dec/hex/octyl *	68648-93-1	<50 µg/g	50	<1000 µg/g	✔PASS
1,2-benzenedicarboxylic,diC6-C10alkyl esters *	68515-51-5	<50 µg/g	50		
Dipropylphthalate (DPrP) *	131-16-8	<50 µg/g	50		
Dinonyl phthalate (DNP) *	84-76-4	<50 µg/g	50		
1,2-Benzenedicarboxylic acid dipentyl ester *	84777-06-0	<50 µg/g	50	<1000 µg/g	✔PASS
Diallylphthalat (DAP) *	131-17-9	<50 µg/g	50		

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ID	A5 & A6 & A7	Requirements:	REACH Regulation (EC) No 1907/2006

Parameter	CAS No.	RESULTS	LOQ.	GUIDELINES	
Octylbutyl phthalate (BOP) *	84-78-6	<50 µg/g	50		
Diundecyl phtalate (DUP) *	3648-20-2	<50 µg/g	50		
Bis(2-etoxiethyl) phtalate (BEEP) *	605-54-9	<50 µg/g	50		
Dicyclohexylphthalate (DCHP) *	84-61-7	<50 µg/g	50	<1000 µg/g	✔PASS
Bis(4-methyl-2-pentyl)phthalate (DIHxP)	71850-09-4	<50 µg/g	50	<1000 µg/g	✔PASS
Di C6-C8-C10 Phthalates	68648-93-1	<50 µg/g	50		
Di C6-C10 Phthalates	68515-51-5	<50 µg/g	50		
Phthalic acid, n-pentyl-isopentyl ester (DPP)	84777-06-0	<50 µg/g	50		
Sum of DHP + DBP + BBP *	-	0 µg/g	-	-	

Remarks:
Determination of the phthalate content — Tetrahydrofuran method
EN ISO 14389:2014
Analytical Method Technique GC-MS/MS
* Parameters not covered by ENAC accreditation scope

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Signed for and on behalf of Eurofins Textile Testing Spain:
Report electronically validated by

Maria Jesus Martinez Puig
Chemical Lab manager

EXPLANATORY NOTE

- ◆ Test not covered by ENAC accreditation scope
- ● Test is subcontracted within Eurofins group and is accredited
- O Test is subcontracted within Eurofins group and is not accredited
- ■ Test is subcontracted outside Eurofins group and is accredited
- □ Test is subcontracted outside Eurofins group and is not accredited

N/A = Not Applicable

(2) Information provided by the customer. Eurofins Textile Testing Spain S.L.U is not responsible of the information supplied by the costumer and reported as section “Information provided by the costumer*” and is not covered by ENAC accreditation scope.
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Test uncertainties not reported are at customer disposal , for those tests in which it is possible to evaluate the test uncertainty.
The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k = 2, which for a normal distribution provides a level of confidence of approximately 95%.
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End Of Report