

Analytical Report Nr.

AR-24-YL-006223-02

Date

11-Jun-2024

⁽¹⁾This report cancels and replaces the previous one, numbered AR-24-YL-006223-01/EFYL24050506-CG-03 dated 06/06/2024 which must be destroyed.

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

Additional information of the order⁽²⁾

Reason for New Version: Reference CG1010 has been included due to customer request.

Sample Information

ID	Sample Code	Client Reference ⁽²⁾	Additional Information ⁽²⁾		
A	560-2405-01239	CG1004 / CG1007 / CG1008 / CG1006 / CG1009 / CG1010			
COMPONENT ID	COMPONENT NAME	MATERIAL DESCRIPTION	COLOR	REMARKS	
A1	Dark blue fabric	Textile	Dark blue		
A2	Light blue fabric	Textile	Light blue		
A3	Purple fabric	Textile	Purple		
A4	White fabric	Textile	White		

SAMPLE PICTURE



CONCLUSION:

TEST PROPERTY	PASS	FAIL	REMARKS
Colour fastness to rubbing ISO 105-X12:2016			
A1			Not applicable
A2			Not applicable
A3			Not applicable
Determination of azo dyes EN ISO 14362-1:2017 Annex F			
A1 & A2 & A3	X		
A4	X		
Lead content in non-metal products CPSC-CH-E1002-08.3			
A1 & A2 & A3	X		
A4	X		

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 ± 2°C; 65 ± 4% H.r.	
Test temperature		20.2 °C	
Test humidity		65.3 %	
Staining on dry lengthwise		4-5	
Staining on dry crosswise		4-5	
Staining on wet lengthwise		2-3	
Staining on wet crosswise		2-3	
Remarks: Applied force 9 ± 0.2 N Water absorption rate for wet test: Between 95% and 100% Conditioning: At least 4h at 20±2 °C and 65 ±4 % Test conditions: 20±2 °C and 65 ±4 %			

Analysis Ending Date: 06/06/2024

ID	A2	Requirements:	No requirements
Parameter		RESULTS	GUIDELINES
Type of finger		Cylindrical finger	
Conditioning		4h - 20 ± 2°C; 65 ± 4% H.r.	
Test temperature		20.2 °C	
Test humidity		65.3 %	
Staining on dry lengthwise		4-5	
Staining on dry crosswise		4-5	
Staining on wet lengthwise		3	
Staining on wet crosswise		3	
Remarks: Applied force 9 ± 0.2 N Water absorption rate for wet test: Between 95% and 100% Conditioning: At least 4h at 20±2 °C and 65 ±4 % Test conditions: 20±2 °C and 65 ±4 %			

Analysis Ending Date: 06/06/2024

ID	A3	Requirements:	No requirements
Parameter		RESULTS	GUIDELINES
Type of finger		Cylindrical finger	
Conditioning		4h - 20 ± 2°C; 65 ± 4% H.r.	
Test temperature		20.2 °C	
Test humidity		65.3 %	
Staining on dry crosswise		4	
Staining on wet crosswise		2	
Remarks: Applied force 9 ± 0.2 N Water absorption rate for wet test: Between 95% and 100% Conditioning: At least 4h at 20±2 °C and 65 ±4 % Test conditions: 20±2 °C and 65 ±4 % Single direction due to lack of sample.			

Analysis Ending Date: 06/06/2024

Determination of azo dyes

EN ISO 14362-1:2017 Annex F

ID	A1 & A2 & A3	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 ✓
4,4-Diamino-3,3-dimethyl diphenylmethane		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 ✓

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ID	A1 & A2 & A3	Requirements:	REACH Regulation (EC) No 1907/2006			
Parameter		CAS No.	RESULTS	LOQ.	GUIDELINES	
					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-Thioaniline		139-65-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
o-Toluidine		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		
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: Analytical method technique: GC/MS Sampling procedure: Section 9 EN 14362-1:2017 Evaluation Procedure - Point 10.2 (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. Conclusion: Amines 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 14362-3.						
				Analysis Ending Date: 03/06/2024		

ID	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	✓
4,4-Diamino-3,3-dimethyl diphenylmethane	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-Thioaniline	139-65-1	<5 mg/kg	5	REACH : < 30 mg/kg PASS	✓
o-Toluidine	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		

ID	A4	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-toluidinium chloride *	3165-93-3	<5 mg/kg	5	REACH : < 30 mg/kg	✓
2-Naphthylammoniumacetate *	553-00-4	<5 mg/kg	5	PASS	
4-Methoxy-m-phenylene Diammonium Sulphate *	39156-41-7	<5 mg/kg	5	REACH : < 30 mg/kg	✓
2,4,5-Trimethylaniline hydrochloride *	21436-97-5	<5 mg/kg	5	PASS	
Remarks: Analytical method technique: GC/MS Sampling procedure: Section 9 EN 14362-1:2017 Evaluation Procedure - Point 10.2 (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 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 ISO 14362-3. Conclusion: Amines 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 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.					
				Analysis Ending Date: 03/06/2024	

Lead content in non-metal products

CPSC-CH-E1002-08.3

ID	A1 & A2 & A3	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: 05/06/2024	

ID	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	

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Date

11-Jun-2024

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
 - 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

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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