



TEST REPORT

Report No.: STSGZ2208293053E

Date: 5-Sep-2022

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Applicant : Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Emergency blanket in a pouch

Vendor code: MO6726

Receiving Date: 29-Aug-2022

Test Period: From 29-Aug-2022 to 2-Sep-2022

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
3	Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS
4	Azo colorants content - Item 43 of Annex XVII of the REACH Regulation (EC) No 1907/2006 & amendment (EC) No 552/2009 and (EU) No 126/2013	ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC	PASS
5	Polycyclic Aromatic Hydrocarbons (PAHs) content - AfPS GS 2019:01 PAK	AfPS GS 2019:01 PAK, determined by GC/MS	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com

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Result:

1. Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Result(s)				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		5		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	100	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

2. Total Lead content -Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

Compound		Result(s)				Limit (mg/kg)	RL (mg/kg)
		1	2	3	4		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		5		
1	Lead(Pb) CAS#7439-92-1	N.D.	500	10
	Conclusion	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram
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3. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.
EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

Compound			Result(s)			Limit (%)	RL (%)
			2	3	5		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	N.D.	-	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	0.0125	0.0211	0.0111	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	N.D.	-	0.005
8	Sum of 1, 2, 3 & 4		0.0125	0.0211	0.0111	0.1	-
9	Sum of 5, 6 & 7		N.D.	N.D.	N.D.	0.1	-
	Conclusion		PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

4. Azo colourants content - Item 43 of Annex XVII of REACH Regulation (EC) No 1907/2006 & amendment EC No 552/2009 and (EU) No 126/2013
ISO 14362-1:2017 & ISO 14362-3:2017, determined by GC/MS and HPLC

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		1		
1	Biphenyl-4-ylamine/4-aminobiphenyl/ Xenylamine CAS#92-67-1	N.D.	30	5
2	Benzidine CAS#92-87-5	N.D.	30	5

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3	4-chloro-o-toluidine CAS#95-69-2	N.D.	30	5
4	2-Naphthylamine CAS#91-59-8	N.D.	30	5
5	o-aminoazotoluene/4-o-tolylazo-o-toluidine /4-amino-2',3'-dimethylazobenzene CAS#97-56-3	N.D.	30	5
6	5-nitro-o-toluidine/2-amino-4-nitrotoluol CAS#99-55-8	N.D.	30	5
7	4-chloroaniline CAS#106-47-8	N.D.	30	5
8	4-methoxy-m-phenylenediamine/ 2,4-diaminoaniline CAS#615-05-4	N.D.	30	5
9	4,4'-methylenedianiline/ 4,4'-diaminodiphenylmethane CAS#101-77-9	N.D.	30	5
10	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS#91-94-1	N.D.	30	5
11	3,3'-dimethoxybenzidine/o-dianisidine CAS#119-90-4	N.D.	30	5
12	3,3'-dimethylbenzidine/4,4'-bi-o-toluidine CAS#119-93-7	N.D.	30	5
13	4,4'-methylenedi-o-toluidine CAS#838-88-0	N.D.	30	5
14	6-methoxy-m-toluidine/p-cresidine CAS#120-71-8	N.D.	30	5
15	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline CAS#101-14-4	N.D.	30	5
16	4,4'-oxydianiline CAS#101-80-4	N.D.	30	5
17	4,4'-thiodianiline CAS#139-65-1	N.D.	30	5
18	o-toluidine/2-aminotoluen CAS#95-53-4	N.D.	30	5
19	2,4-diaminotoluene/2,4-toluylenediamine/ methyl-m-phenylenediamine CAS#95-80-7	N.D.	30	5
20	2,4,5-trimethylaniline CAS#137-17-7	N.D.	30	5
21	o-anisidine/2-methoxyaniline CAS#90-04-0	N.D.	30	5
22	4-aminoazobenzene** CAS#60-09-3	N.D.	30	5
Conclusion		PASS	-	-

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(c) RL: Report limit

*: The amines o-aminoazotoluene (No 5, CAS No.97-56-3) and 2-amino-4-nitrotoluene (No 6, CAS No.99-55-8) are further reduced to o-toluidine (No 18, CAS No. 95-53-4) and 2, 4-diaminotoluene (No 19, CAS No. 95-80-7).

**: Azo colorants that are able to form 4-aminoazobenzene (No 22, CAS No. 60-09-3) generate, under the condition of this method, aniline (CAS No. 62-53-3) and 1, 4-phenylenediamine (CAS No. 106-50-3). Due to detection limits, only aniline may be detected. If aniline is detected above 5mg/kg, then the presence of these colorants should be tested by ISO 14362-3:2017.

5. Polycyclic Aromatic Hydrocarbons (PAHs) content - AfPS GS 2019:01 PAK AfPS GS 2019:01 PAK, determined by GC/MS

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		Category 2B*1				
		2	3	5		
1	Naphthalene CAS#91-20-3	N.D.	N.D.	N.D.	2	0.2
2	Phenanthrene CAS#85-01-8	N.D.	N.D.	N.D.	-	0.2
3	Anthracene CAS#120-12-7	N.D.	N.D.	N.D.	-	0.2
4	Fluoranthene CAS#206-44-0	N.D.	N.D.	N.D.	-	0.2
5	Pyrene CAS#129-00-0	N.D.	N.D.	N.D.	-	0.2
6	Benz[a]anthracene CAS#56-55-3	N.D.	N.D.	N.D.	0.5	0.2
7	Chrysene CAS#218-01-9	N.D.	N.D.	N.D.	0.5	0.2
8	Benz[b]fluoranthene CAS#205-99-2	N.D.	N.D.	N.D.	0.5	0.2
9	Benz[k]fluoranthene CAS#207-08-9	N.D.	N.D.	N.D.	0.5	0.2
10	Benz[j]fluoranthene CAS#205-82-3	N.D.	N.D.	N.D.	0.5	0.2
11	Benzo[a]pyrene CAS#50-32-8	N.D.	N.D.	N.D.	0.5	0.2
12	Benzo[e]pyrene CAS#192-97-2	N.D.	N.D.	N.D.	0.5	0.2
13	Indeno[1,2,3-cd]pyrene CAS#193-39-5	N.D.	N.D.	N.D.	0.5	0.2
14	Dibenz [a,h]anthracene CAS#53-70-3	N.D.	N.D.	N.D.	0.5	0.2
15	Benzo[ghi]perylene CAS#191-24-2	N.D.	N.D.	N.D.	0.5	0.2
16	Sum of 2~5	N.D.	N.D.	N.D.	10	-

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17	Sum of 15 PAHs	N.D.	N.D.	N.D.	10	-
	Conclusion	PASS	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

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*1: Categories of various materials:

Category 1: Materials intended to be placed in the mouth, or materials in toys according to Directive 2009/48/EC or materials in articles for the use by children up to 3 years of age coming into long-term contact with skin (more than 30s) during the intended use

Category 2A: Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact with skin during the intended or foreseeable use – use by children

Category 2B: Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact with skin during the intended or foreseeable use - other consumer products

Category 3A: Materials not covered by category 1 or by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use – use by children

Category 3B: Materials not covered by category 1 or by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use - other consumer products

Material List:

Material #	Position / Sample Description
1	Black fabric,bag
2	Black fiber,string
3	Black plastic, holder
4	Black printed white textile,label
5	Silvery plastic,film

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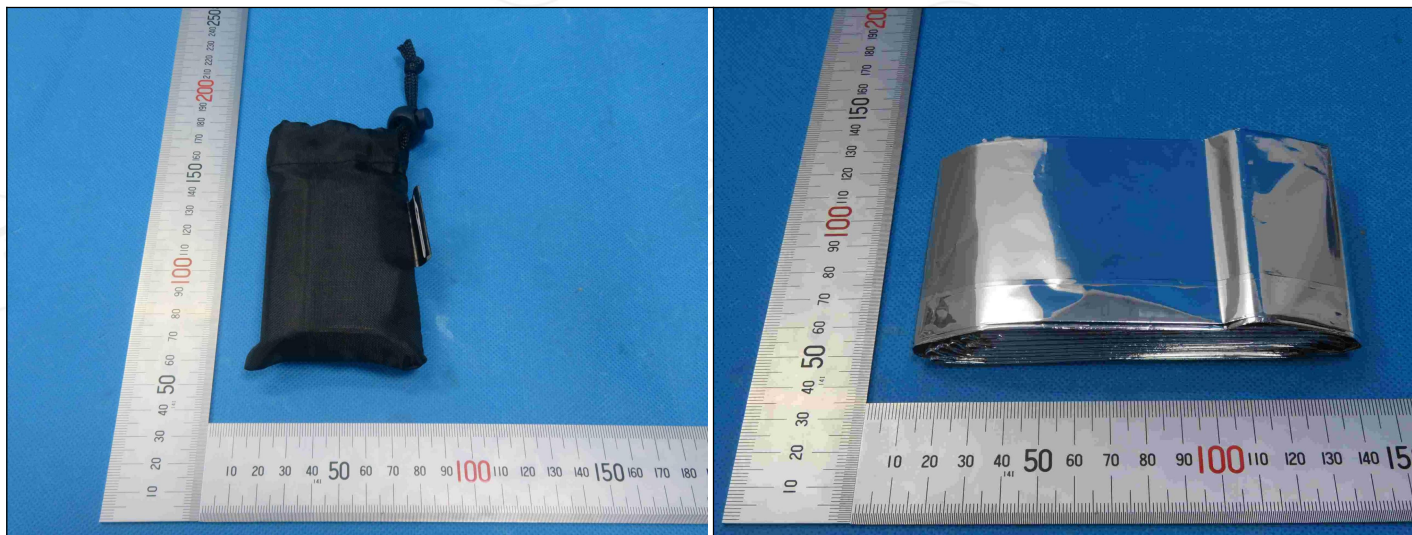
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Photo(s):



Product Photo

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