

Test Report

Report No. : AGC05443240126-001

- SAMPLE NAME : Cutlery set stainless steel
- MODEL NAME : MO6149
- APPLICANT : MID OCEAN BRANDS B.V
- **STANDARD(S)** : Please refer to the following page(s).
- DATE OF ISSUE : Feb. 02, 2024







: MID OCEAN BRANDS B.V

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

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6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

Report on the submitted sample(s) said to be:

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Sample Name	:	Cutlery set stainless steel
Model	:	MO6149
Vendor code	:	114276
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Sample Received Date	:	Jan. 26, 2024
Testing Period	:	Jan. 26, 2024 to Feb. 02, 2024
Test Requested	:	Selected test(s) as requested by client.

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Test Requested:

VAUL CALINEA CILIN

Conclusion

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63 - Lead(Pb) Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23 -Cadmium(Cd) Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 51&52 - Phthalates Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50 - Polycyclic-aromatic Hydrocarbons (PAHs) Content	Pass
Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43 - Aromatic Amines Azodyes (AZO) Content	Pass
Regulation (EC) No 1935/2004, LFGB section 30 and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res (2013)9. - Specific migration of heavy metal from metal and alloys used in contact with food	Pass
- Colour fastness to rubbing	Pass

(TC)) 1007/2000

Approved by:

Suhongliang, Leon

Technical Director



Report No.: AGC05443240126-001

	1		
Report Version	Issued Date	Valid Version	Notes
/	Feb. 02, 2024	Valid	Initial release



The photo of the sample



The photo of AGC05443240126-001 is for use only with the original report.

Test point	Test point description
1-1+1-2+1-3	Black bag main fabric+Black zipper fabric+Black rope
1-4	Black plastic zipper teeth
1-5	Metal zipper head
1-6	Golden metal knife
1-7	Gold metal fork
1-8	Gold metal spoon
1-9	Gold metal straw
1-10	Gold metal brush handle
1-11	White plastic brush
1-12	White coating
1-13	Black bag main fabric
1-14	Black zipper fabric
1-15	Black rope

Test Point Description



Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63

- Lead(Pb) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Test Item(s) Unit Limit MI		MDI	Test Result(s)			
Test Item(s)	Unit	LIIIII	MDL	1-1+1-2+1-3	1-4	1-5	
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	22	
Con	Conformity	Conformity	Conformity				

Test Item(s)	tem(s) Unit Limit MDL	Test Result(s)				
Test Item(s)	Unit	Liiiit	MDL	1-6	1-7	1-8
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Con	Conformity	Conformity	Conformity			

Test Item(s)	Unit	Limit	imit MDL Test Result(s)			
Test Item(s)	Omt	Lımıt	MDL	1-9	1-10	1-11
Lead(Pb)	mg/kg	500	10	N.D.	10	N.D.
Con	Conformity	Conformity	Conformity			

Test Item(s)	Unit	Limit	MDL	Test Result(s)	
	Unit	Liiiit	NIDL	1-12	
Lead(Pb)	mg/kg	500	10	N.D.	
Со	Conformity				

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 23

-Cadmium(Cd) Content

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit Limit MDL	Test Result(s)				
Test Item(s)		Limit	MDL	1-4	1-11	1-12
Cadmium(Cd)	mg/kg	100	10	N.D.	N.D.	N.D.
Con	Conformity	Conformity	Conformity			



- Phthalates Content

Test Methods and Equipment: IEC 62321-8:2017; GC-MS

Test Item(s)	Unit	Unit Limit MDL]	Test Result(s)	
Test Itell(s)	Ullit	LIIIII	MDL	1-4	1-11	1-12
Diisobutyl phthalate (DIBP) CAS:84-69-5	%	0.1	0.005	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP) CAS:84-74-2	%	0.1	0.005	N.D.	N.D.	N.D.
Butylbenzyl phthalate (BBP) CAS:85-68-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate (DEHP) CAS:117-81-7	%	0.1	0.005	N.D.	N.D.	N.D.
Di-n-octyl phthalate (DNOP) CAS:117-84-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isononyl phthalate (DINP) CAS:28553-12-0, 68515-48-0	%	/	0.005	N.D.	N.D.	N.D.
Di-isodecyl phthalate(DIDP) CAS:26761-40-0, 68515-49-1	%	/	0.005	N.D.	N.D.	N.D.
Sum of DIBP +DBP+BBP+DEHP	%	0.1	/	N.D.	N.D.	N.D.
Sum of DNOP+DINP+DIDP	%	0.1	/	N.D.	N.D.	N.D.
Con		Conformity	Conformity	Conformity		

Limit requirements of Phthalates

Toys and childcare articles	Each of DEHP, DBP, BBP, DIBP is less than 0.1% or the sum of DEHP+DBP+BBP+DIBP is less than 0.1%
Toys and childcare articles which can be placed in the mouth by children	The sum of DINP+DIDP+DNOP is less than 0.1%

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 50

- Polycyclic-aromatic Hydrocarbons (PAHs) Content

Test Methods and Equipment: AfPS GS 2019:01 PAK; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s)			
Test Itelli(s)		LIIIII		1-4	1-11	1-12	
Benzo[a]pyrene(BaP)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[e]pyrene(BeP)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[a]anthracene(BaA)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[b]fluoranthene(BbF)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[j]fluoranthene(BjFA)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Benzo[k]fluoranthene(BkF)	mg/kg	1	0.1	N.D.	N.D.	N.D.	
Chrysene(CHR)	mg/kg	1	0.1	N.D.	N.D.	N.D.	

GC®				Report	No.: AGC054	43240126-001
Test Item(s)	Unit	Limit	MDL	Test Result(s) 1-4 1-11 1-12		
Dibenzo[a,h]anthracene(DBA)	mg/kg	1	0.1	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Items	CAS No.	Extender oils or used for the production of tyres or parts of tyres	Any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity	Toys, including activity toys, and childcare articles, any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity
Benzo[a]pyrene(BaP)	50-32-8	≤ 1	≤ 1	≤ 0.5
Benzo[e]pyrene(BeP)	192-97-2	/	≤ 1	≤ 0.5
Benzo[a]anthracene(BaA)	56-55-3	/	≤ 1	≤ 0.5
Benzo[b]fluoranthene(BbF)	205-99-2	/	≤ 1	≤ 0.5
Benzo[j]fluoranthene(BjFA)	205-82-3	/	≤ 1	≤ 0.5
Benzo[k]fluoranthene(BkF)	207-08-9	/	≤ 1	≤ 0.5
Chrysene(CHR)	218-01-9	/	≤ 1	≤ 0.5
Dibenzo[a,h]anthracene(DBA)	53-70-3	/	≤ 1	≤ 0.5
Sum of BaP+ BeP+ BaA+ BbF+ BjFA+ BkF+ CHR+ DBA	/	≤ 10	/	/

Limit requirements of Polycyclic-aromatic Hydrocarbons (PAHs) (Unit: mg/kg)

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 43

- Aromatic Amines Azodyes (AZO) Content

Test Methods and Equipment: EN ISO 14362-1:2017; GC-MS

Test Item(s)	Unit	Limit	MDL	Test Result(s) 1-1+1-2+1-3
4-Aminobiphenyl CAS:92-67-1	mg/kg	30	5	N.D.
Benzidine CAS:92-87-5	mg/kg	30	5	N.D.
4-Chloro-o-toluidine CAS:95-69-2	mg/kg	30	5	N.D.
2-Naphthylamine CAS:91-59-8	mg/kg	30	5	N.D.
o-Aminoazotoluene CAS:97-56-3	mg/kg	30	5	N.D.



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Test Item(s)	Unit	Limit	MDL	Test Result(s) 1-1+1-2+1-3
5-Nitro-o-toluidine CAS:99-55-8	mg/kg	30	5	N.D.
p-Chloroaniline CAS:106-47-8	mg/kg	30	5	N.D.
4-Methoxy-m-phenylenediamine CAS:615-05-4	mg/kg	30	5	N.D.
4,4'-Diaminodiphenylmethane CAS:101-77-9	mg/kg	30	5	N.D.
3,3'-Dichlorobenzidine CAS:91-94-1	mg/kg	30	5	N.D.
3,3'-Dimethoxybenzidine CAS:119-90-4	mg/kg	30	5	N.D.
3,3'-Dimethybenzidine CAS:119-93-7	mg/kg	30	5	N.D.
4,4'-Methylenedi-o-toluidine CAS:838-88-0	mg/kg	30	5	N.D.
p-Cresidine CAS:120-71-8	mg/kg	30	5	N.D.
4,4'-Methylenebis[2-chloroaniline] CAS:101-14-4	mg/kg	30	5	N.D.
4,4'-Oxydianiline CAS:101-80-4	mg/kg	30	5	N.D.
4,4'-Thiodianiline CAS:139-65-1	mg/kg	30	5	N.D.
2-Aminotoluene CAS:95-53-4	mg/kg	30	5	N.D.
2,4-Toluylendiamine CAS:95-80-7	mg/kg	30	5	N.D.
2,4,5-Trimethylaniline CAS:137-17-7	mg/kg	30	5	N.D.
o-Anisidine CAS:90-04-0	mg/kg	30	5	N.D.
4-Aminoazobenzene CAS:60-09-3	mg/kg	30	5	N.D.
С	Conformity			

Remark:

1. As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3 Note: 4-aminoazobenzene: The EN ISO 14362-1:2017 or ISO 17234-1:2020 methods will enable further cleavage of 4aminoazobenzene to aniline and / or 1,4-phenylenediamine. If aniline and / or 1,4-phenylenediamine are detected, 4aminoazobenzene shall be further determined by EN ISO 14362-3:2017 or ISO 17234-2:2011.



Regulation (EC) No 1935/2004, LFGB section 30 and Technical Guide on Metals and alloys used

in food contact materials of Council of Europe Resolution CM/Res (2013)9

- Specific migration of heavy metal from metal and alloys used in contact with food

Test Method: With reference to EDQM Technical Guide on Metals and alloys used in food contact materials 2013.

				Unit: mg/k
Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	
			$1^{st} + 2^{nd}$ extractives	Limit
		0.1	1-7	0.4
Barium (Ba)	_	0.1	N.D.	8.4
Copper (Cu)	_	0.1	N.D.	28
Iron (Fe)		0.1	0.149	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminium (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)		0.005	N.D.	0.07
Nickel (Ni)	0.5% citric acid, 70°C, 2h ICP-OES	0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)	-	0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)		0.01	N.D.	0.07
Conclusion		/	Conformity	/
Magnesium (Mg)	1	0.01	0.029	/
Titanium (Ti)	1	0.01	0.113	/



Report No.: AGC05443240126-001 Unit: mg/kg

			Test Result(s)	
Test Item(s)	Test condition/ Equipment	MDL	3 rd extractives	Limit
	Equipment		1-7	
Barium (Ba)		0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminium (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	0.5% citric acid,	0.005	N.D.	0.01
Nickel (Ni)	- 70°C, 2h ICP-OES	0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)	-	0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Conclusion		/	Conformity	/
Magnesium (Mg)		0.01	N.D.	/
Titanium (Ti)		0.01	0.038	/



Test Method: ISO 105-X12:2016

Rubbing finger: Cylinder

The time of conditioning as well as the atmospheric conditions during testing: 21.5 °C, 65 %R.H., 4 hrs **The percentage of soak of wet rubbing cloth:** 95%~100%

The long direction of the specimen: Endwise/ Crossrange

	Test]		
Test point	Colour fastness to	Conclusion	
	Dry rubbing	Wet rubbing	
1-13	4-5	4	Conformity
1-14	4-5	4-5	Conformity
1-15	3-4	4-5	Conformity
Limit (Client's Requirement)	≥2-3	≥2-3	/

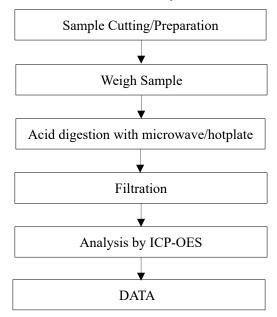
Note:

Colour Fastness Grade: Grade 5 = No Colour Change (Best Grade) Grade 1 = Colour Change Seriously (Bad Grade)

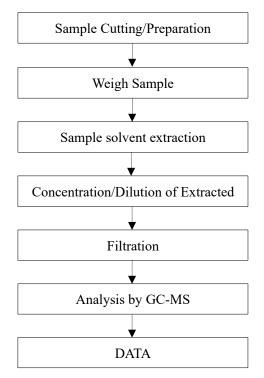
9 grades in gray sample card: 5, 4-5, 4, 3-4, 3, 2-3, 2, 1-2, 1.



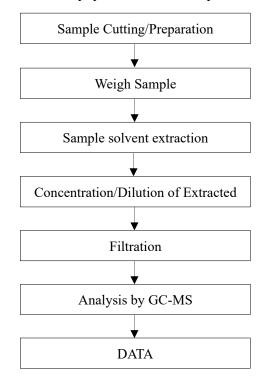
Test Flow Chart of Heavy Metal Content



Test Flow Chart of Phthalates



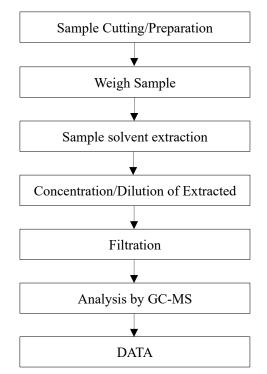




Test Flow Chart of Polycyclic-aromatic Hydrocarbons (PAHs)



Test Flow Chart of AZO





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*** End of Report ***