

Test Report

Report No.: AGC03044191101-004

Date: Nov.22, 2019

Page 1 of 10

Applicant: Favorite Logistics B.V.
Address: Het Eek 1, 4004 LM, Tiel, The Netherlands
Test site: 1,6/F.,Building 2,No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Report on the submitted samples said to be:

Sample Name : Auto open umbrella with plastic handle, top and tips.
Model No. : 17 221H
Item No. : 9253
Supplier :
Supplier Address: :
Country of Origin : CHINA
Country of Destination : EUROPE
Sample Receiving Date : Nov.14, 2019
Testing Period : Nov.14, 2019 to Nov.22, 2019

Test Requested: : Please refer to next page(s).
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

Approved by:

Liulinwen, Lewis

Technical Director



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Test Report

Report No.: AGC03044191101-004

Date: Nov.22, 2019

Page 2 of 10

Test Requested:

1. As specified by client, to determine the Cadmium(Cd)content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.
2. As specified by client, to determine the Polycyclic Aromatic Hydrocarbons (PAHs) content in the submitted sample(s) with reference to entry 50, Annex XVII of the REACH Regulation (EC) No 1907/2006.
3. As specified by client, to determine the phthalates content in the submitted sample(s) with reference to entry 51 and its amendment (EU)2018/2005& entry 52, Annex XVII of the REACH Regulation (EC) No 1907/2006 and Amendment Regulation (EC) No 552/2009.
4. As specified by client, to determine Azocolourants and Azodyes in the submitted sample with reference to Entry 43, Annex XVII of the REACH Regulation (EC) No 1907/2006.

Conclusion

Pass

Pass

Pass

Pass

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Test Report

Report No.: AGC03044191101-004
Date: Nov.22, 2019

Page 3 of 10

Test Result(s):
1. Test Result(s) of Cd:

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-1	1-2	1-3	1-4	1-5	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-6	1-7	1-8	1-9	1-10	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	Pass	Pass	/

Unit: mg/kg

Test item(s)	Test Method/ Equipment	MDL	Result(s)					Limit
			1-11	1-12	1-13	1-14	1-15	
Cadmium (Cd)	IEC 62321-5:2013	10	N.D.	N.D.	N.D.	N.D.	N.D.	100
Conclusion	ICP-OES	/	Pass	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. As specified by client, only test the designated sample

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Test Report

Report No.: AGC03044191101-004
Date: Nov.22, 2019

Page 4 of 10

2. Test Result(s) of Polycyclic Aromatic Hydrocarbons (PAHs)

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)			Limit
			1-6	1-7	1-8	
Benzo[a]anthracene (BaA)	AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	—
Conclusion		/	Pass	Pass	Pass	/

Unit: mg/kg

Test Item(s)	Test Method /Equipment	MDL	Result(s)				Limit
			1-9	1-10	1-11	1-14	
Benzo[a]anthracene (BaA)	AfPS GS 2014:01 PAK GC-MS	0.1	N.D.	N.D.	N.D.	N.D.	1
Chrysene (CHR)		0.1	N.D.	N.D.	N.D.	N.D.	1
Benzo[b]fluoranthene (BbFA)		0.1	N.D.	N.D.	N.D.	N.D.	1
Benzo[k]fluoranthene (BkFA)		0.1	N.D.	N.D.	N.D.	N.D.	1
Benzo[j]fluoranthene (BjFA)		0.1	N.D.	N.D.	N.D.	N.D.	1
Benzo[a]pyrene (BaP)		0.1	N.D.	N.D.	N.D.	N.D.	1
Benzo[e]pyrene(BeP)		0.1	N.D.	N.D.	N.D.	N.D.	1
Dibenzo[a,h]anthracene (DBAhA)		0.1	N.D.	N.D.	N.D.	N.D.	1
Sum of 8 PAHs		—	N.D.	N.D.	N.D.	N.D.	—
Conclusion		/	Pass	Pass	Pass	Pass	/

- Note:**
1. MDL=Method Detection Limit
 2. N.D.=Not Detected(less than method detection limit)
 3. “—”=Not regulated
 4. As specified by client, only test the designated sample.

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Test Report

Report No.: AGC03044191101-004
Date: Nov.22, 2019

Page 5 of 10

3. Test Result(s) of phthalates content

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-6	1-7	1-8	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	-
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	/

Unit: %, w/w

Test Item(s)	Test Method/ Equipment	MDL	Result(s)				Limit
			1-9	1-10	1-11	1-14	
Dibutyl phthalate (DBP)	EN 14372:2004 GC-MS	0.01	N.D.	N.D.	N.D.	N.D.	0.1
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Diisobutyl phthalate (DIBP)		0.01	N.D.	N.D.	N.D.	N.D.	0.1
Sum of DBP+BBP+DEHP+DIBP		—	N.D.	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)		0.01	N.D.	N.D.	N.D.	N.D.	-
Di-isononyl phthalate (DINP)		0.01	N.D.	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		—	N.D.	N.D.	N.D.	N.D.	0.1
Conclusion		/	Pass	Pass	Pass	Pass	/

- Note:**
- 0.1%,w/w =1000mg/kg
 - MDL=method detection limit
 - N.D.=not detected (less than method detection limit)

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Test Report

Report No.: AGC03044191101-004
Date: Nov.22, 2019

Page 6 of 10

4. “—”=Not regulated
5. As specified by client, only test the designated sample

4. Test Result(s) of AZO:

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)			Limit
			1-1	1-2	1-3	
4-Aminobiphenyl	EN ISO 14362-1:2017 EN ISO 14362-3:2017 GC-MS	5	N.D.	N.D.	N.D.	30
Benzidine		5	N.D.	N.D.	N.D.	30
4-Chloro-o-Toluidine		5	N.D.	N.D.	N.D.	30
2-Naphthylamine		5	N.D.	N.D.	N.D.	30
o-Aminoazotoluene		5	N.D.	N.D.	N.D.	30
5-Nitro-o-toluidine		5	N.D.	N.D.	N.D.	30
4-Chloroaniline		5	N.D.	N.D.	N.D.	30
4-Methoxy-m-phenylenediamine		5	N.D.	N.D.	N.D.	30
4,4'-Diaminodiphenylmethane		5	N.D.	N.D.	N.D.	30
3,3'-Dichlorobenzidine		5	N.D.	N.D.	N.D.	30
3,3'-Dimethoxybenzidine		5	N.D.	N.D.	N.D.	30
3,3'-Dimethybenzidine		5	N.D.	N.D.	N.D.	30
4,4'-Methylenedi-o-toluidine		5	N.D.	N.D.	N.D.	30
p-Cresidine		5	N.D.	N.D.	N.D.	30
4,4'-Methylene-bis-(2-chloro-aniline)		5	N.D.	N.D.	N.D.	30
4,4'-Oxydianiline		5	N.D.	N.D.	N.D.	30
4,4'-Thiodianiline		5	N.D.	N.D.	N.D.	30
o-Toluidine		5	N.D.	N.D.	N.D.	30
4-Methyl-m-phenylenediamine		5	N.D.	N.D.	N.D.	30
2,4,5-Trimethylaniline		5	N.D.	N.D.	N.D.	30
o-Anisidine		5	N.D.	N.D.	N.D.	30
4-Amino azobenzene		5	N.D.	N.D.	N.D.	30
2,4-Xylidine		5	N.D.	N.D.	N.D.	30
2,6-Xylidine		5	N.D.	N.D.	N.D.	30
Conclusion		/	Pass	Pass	Pass	/

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Test Report

Report No.: AGC03044191101-004
Date: Nov.22, 2019

Page 7 of 10

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)		Limit
			1-4	1-5	
4-Aminobiphenyl	EN ISO 14362-1:2017 EN ISO 14362-3:2017 GC-MS	5	N.D.	N.D.	30
Benzidine		5	N.D.	N.D.	30
4-Chloro-o-Toluidine		5	N.D.	N.D.	30
2-Naphthylamine		5	N.D.	N.D.	30
o-Aminoazotoluene		5	N.D.	N.D.	30
5-Nitro-o-toluidine		5	N.D.	N.D.	30
4-Chloroaniline		5	N.D.	N.D.	30
4-Methoxy-m-phenylenediamine		5	N.D.	N.D.	30
4,4'-Diaminodiphenylmethane		5	N.D.	N.D.	30
3,3'-Dichlorobenzidine		5	N.D.	N.D.	30
3,3'-Dimethoxybenzidine		5	N.D.	N.D.	30
3,3'-Dimethybenzidine		5	N.D.	N.D.	30
4,4'-Methylenedi-o-toluidine		5	N.D.	N.D.	30
p-Cresidine		5	N.D.	N.D.	30
4,4'-Methylene-bis-(2-chloro-aniline)		5	N.D.	N.D.	30
4,4'-Oxydianiline		5	N.D.	N.D.	30
4,4'-Thiodianiline		5	N.D.	N.D.	30
o-Toluidine		5	N.D.	N.D.	30
4-Methyl-m-phenylenediamine		5	N.D.	N.D.	30
2,4,5-Trimethylaniline		5	N.D.	N.D.	30
o-Anisidine		5	N.D.	N.D.	30
4-Amino azobenzene		5	N.D.	N.D.	30
2,4-Xylidine		5	N.D.	N.D.	30
2,6-Xylidine		5	N.D.	N.D.	30
Conclusion		/	Pass	Pass	/

Note:

- 1.MDL=method detection limit
- 2.N.D.=not detected (less than method detection limit)
- 3.As specified by client, only test the designated sample
4. The EN ISO 14362-1:2017 methods will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine, therefore, the test method of EN ISO 14362-3:2017 was employed to verify the presence of 4-aminoazobenzene

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Test Report

Report No.: AGC03044191101-004

Date: Nov.22, 2019

Page 8 of 10

Sample Description

1-1	Black cloth
1-2	Red cloth
1-3	Blue cloth
1-4	Yellow cloth
1-5	Green cloth
1-6	Black Velcro
1-7	Red Velcro
1-8	Blue Velcro
1-9	Yellow Velcro
1-10	Green Velcro
1-11	Black handle
1-12	Metal umbrella stand
1-13	Metal shaft
1-14	Black plastic tip
1-15	Metal block

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Test Report

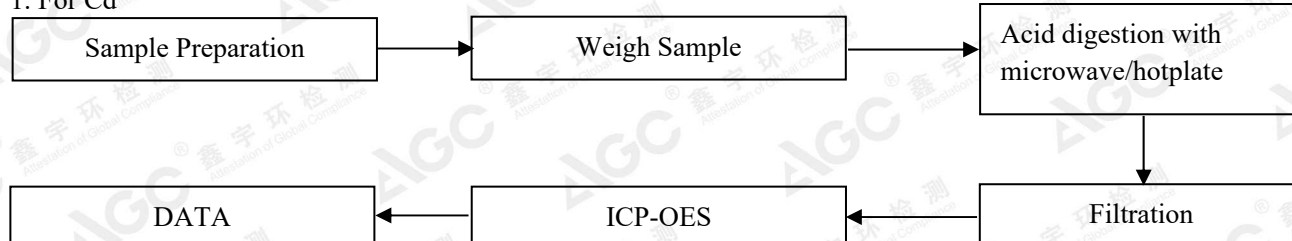
Report No.: AGC03044191101-004

Date: Nov.22, 2019

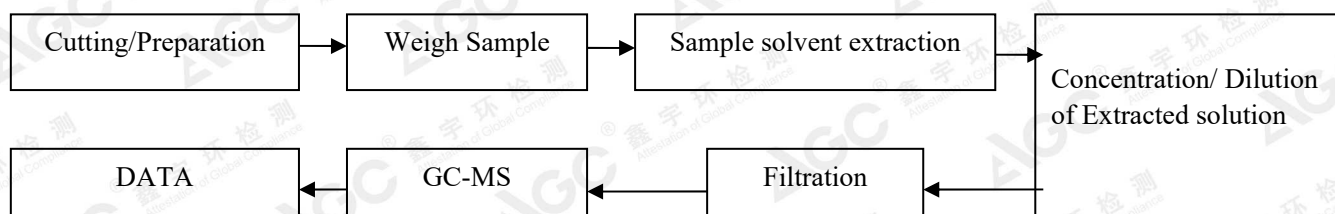
Page 9 of 10

Test Flow Chart

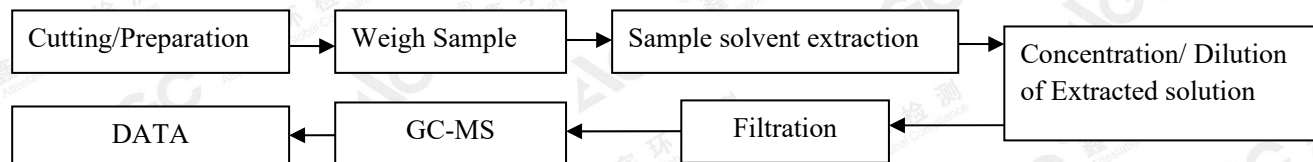
1. For Cd



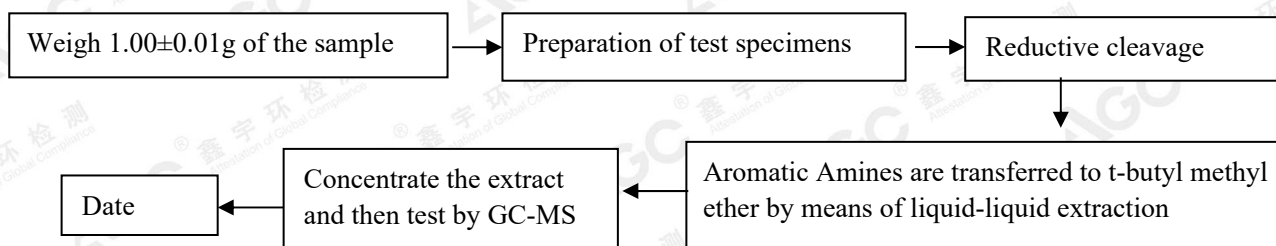
2. For PAHs



3. For phthalates



4. For AZO



As client's request, test results of No.1-1, No.1-6, No.1-12, No.1-13 copied from test results of No.1-1, No.1-5, No.1-12, No.1-13 of test report No. AGC03044191101-001 respectively.

As client's request, test results of No.1-2, No.1-3, No.1-4, No.1-7, No.1-8, No.1-9, No.1-14 copied from test results of No.1-2, No.1-3, No.1-4, No.1-6, No.1-7, No.1-8, No.1-12 of test report No. AGC03044191101-003 respectively.

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Test Report

Report No.: AGC03044191101-004

Date: Nov.22, 2019

Page 10 of 10

The photo of the sample



AGC03044191101-004

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*** End of Report***

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