Test Report No.: 68.431.21.05360.01
Dated: 2022-01-06

Applicant	:	The Dream Farm Pty Ltd 9 Amy Street, Albion QLD Australia
Attention	:	Ms. Dani Toeke
Sample Description	:	Chopula + Mini Chopula
Product Type/ End use	:	Spatula
Style No. / Name / Design No.	:	DFCUXXXX
Supplier	:	The Dream Farm Pty Ltd
Manufacturer	:	Millennium Metal & Plastics / Hui Zi Yi Run Metal
Country of Origin	:	China
Test Sample Receipt Date, Location	:	2021-12-17, Shenzhen
Test Period, Location	:	From 2021-12-20 to 2022-01-06, Shenzhen
Test Result(s)	:	Refer to Section 3

Purpose Of Examination / Conclusion:

Test Requested:	**As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the German Food & Feed Acts LFGB (§ 30 & 31) and Regulation (EC) No.1935/2004**

No.	Test Item(s)	Conclusion
1.	**Overall Migration**	Pass
2	**Specific Migration of PAA**	Pass
3	**Specific Migration of PAAs**	Pass
4	**Specific Migration of Heavy Metals**	Pass
5	**Specific Migration of Bisphenol A (BPA)**	Pass
6	**Specific Migration of Hexamethylenediamine (HMDA)**	Pass
7	**Peroxide**	Pass
8	**Sensory Test** Test for compliance with German Food and Feed Acts LFGB Section 31 and Regulation (EC) No. 1935/2004 Article 3(1)	Pass

Remarks:

(1) The results relate only to the items tested.

(2) Samples are tested as received.

(3) The test item and samples were specified by the client

(4) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

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Reviewed by:

Ken Chen
Project Manager

1. Description of the Submitted Sample:

Sample Description	Chopula + Mini Chopula

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Black Nylon + PA66 plastic (Functional head)	
T2	002	Whole product (Spatula)	

Laboratory:
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3. Test Result

3.1 Overall Migration

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V,test with reference to:
EN 1186-1:2002(Guide to the selection of conditions and test methods for overall migration)
EN 1186-3:2002 (Total Immersion method)
EN 1186-14:2002 (Substitute Test method)
[Reporting Limit: 3mg/dm²]

TEST ITEM	TEST CONDITIONS	RESULTS [mg/dm²]			LIMIT [mg/dm²]
		SAMPLE 001 1st Migration	SAMPLE 001 2nd Migration	SAMPLE 001 3rd Migration	
3% Acetic acid	100°C for 4 Hours	11.5	ND	ND	<10
10% Ethanol	100°C for 4 Hours	8.0	ND	ND	<10
95% Ethanol	60°C for 7 Hours	7.0	5.8	4.2	<10
Isooctane	60°C for 3 Hours	ND	ND	ND	<10
Conclusion:		Pass*			--

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/dm²" denotes milligram per square decimeter
4. "ND" denotes below the Report Limit
5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments
6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

3.2 Specific Migration of PAA

Test method: with reference to EN 13130-1:2004, follow by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 3% Acetic acid: 100 °C for 2 Hours

TEST ITEM	RESULT [mg/kg]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1st Migration	SAMPLE 001 2nd Migration	SAMPLE 001 3rd Migration		
Primary Aromatic Amine-Trial 1	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 2	ND	ND	ND	<0.01	<0.01
Primary Aromatic Amine-Trial 3	ND	ND	ND	<0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/kg" denotes milligram per kilogram
4. "ND" denotes below the Report Limit
5. The specification was quoted from Regulation (EU) No. 284/2011

3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1st Migration	SAMPLE 001 2nd Migration	SAMPLE 001 3rd Migration	
4-Aminobiphenyl (4-ABP)-Trial 1	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 2	ND	ND	ND	<0.002
4-Aminobiphenyl (4-ABP)-Trial 3	ND	ND	ND	<0.002
Aniline (ANL)-Trial 1	ND	ND	ND	<0.002
Aniline (ANL)-Trial 2	ND	ND	ND	<0.002
Aniline (ANL)-Trial 3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 1	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 2	ND	ND	ND	<0.002
o-Anisidine (o-ASD)-Trial 3	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 1	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 2	ND	ND	ND	<0.002
Benzidine (BNZ)-Trial 3	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 1	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 2	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)-Trial 3	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 1	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 2	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)-Trial 3	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 1	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)-Trial 3	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 2	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)-Trial 3	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 1	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 2	ND	ND	ND	<0.002
4,4*-Methylenedianiline (4,4*-MDA)-Trial 3	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 1	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 2	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)-Trial 3	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 1	ND	ND	ND	<0.002

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1st Migration	SAMPLE 001 2nd Migration	SAMPLE 001 3rd Migration	
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 2	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)-Trial 3	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 1	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 2	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)-Trial 3	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 1	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)-Trial 3	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 1	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 2	ND	ND	ND	<0.002
o-Toluidine (o-T)-Trial 3	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 1	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 2	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)-Trial 3	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 1	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 2	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)-Trial 3	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 1	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 2	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)-Trial 3	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 1	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 2	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)-Trial 3	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 1	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 2	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)-Trial 3	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 1	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 2	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)-Trial 3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 1	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 2	ND	ND	ND	<0.002
1,5-Diaminenaphthalene (1,5-DAN)-Trial 3	ND	ND	ND	<0.002
2-naphthylamine-Trial 1	ND	ND	ND	<0.002
2-naphthylamine-Trial 2	ND	ND	ND	<0.002
2-naphthylamine-Trial 3	ND	ND	ND	<0.002

TEST ITEM	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
	SAMPLE 001 1st Migration	SAMPLE 001 2nd Migration	SAMPLE 001 3rd Migration	
o-aminoazotoluene-Trial 1	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 2	ND	ND	ND	<0.002
o-aminoazotoluene-Trial 3	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 1	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 2	ND	ND	ND	<0.002
5-nitro-o-toluidine-Trial 3	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dichlorobenzidine-Trial 3	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 2	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine-Trial 3	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 1	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 2	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)-Trial 3	ND	ND	ND	<0.002
4,4'-thiodianline-Trial 1	ND	ND	ND	<0.002
4,4'-thiodianline-Trial 2	ND	ND	ND	<0.002
4,4'-thiodianline-Trial 3	ND	ND	ND	<0.002
4-amino azobenzene-Trial 1	ND	ND	ND	<0.002
4-amino azobenzene-Trial 2	ND	ND	ND	<0.002
4-amino azobenzene-Trial 3	ND	ND	ND	<0.002
Conclusion:	Pass	Pass	Pass	--

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/kg" denotes milligram per kilogram
4. "ND" denotes below the Report Limit
5. The specification was quoted from Regulation (EU) No. 284/2011

3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULT [mg/kg foodstuff]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1st Migration	SAMPLE 001 2nd Migration	SAMPLE 001 3rd Migration		
Aluminium (Al)	ND	ND	ND	<0.1	<1
Antimony (Sb)	ND	ND	ND	<0.01	<0.04
Arsenic (As)	ND	ND	ND	<0.01	<0.01
Barium (Ba)	ND	ND	ND	<0.1	<1
Cadmium (Cd)	ND	ND	ND	<0.002	<0.002
Chromium (Cr)	ND	ND	ND	<0.01	<0.01
Cobalt (Co)	ND	ND	ND	<0.05	<0.05
Copper (Cu)	ND	ND	ND	<0.5	<5
Iron (Fe)	ND	ND	ND	<1.0	<48
Lead (Pb)	ND	ND	ND	<0.01	<0.01
Lithium (Li)	ND	ND	ND	<0.1	<0.6
Manganese (Mn)	ND	ND	ND	<0.05	<0.6
Mercury (Hg)	ND	ND	ND	<0.01	<0.01
Nickel (Ni)	ND	ND	ND	<0.01	<0.02
Zinc (Zn)	ND	ND	ND	<1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	<0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/kg" denotes milligram per kilogram
4. "ND" denotes below the Report Limit
5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments
6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

3.5 Specific Migration of Bisphenol A (BPA)

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V,and followed by High Performance Liquid Chromatography (HPLC).

Test Conditions: 95% Ethanol: 60 °C for 3.5 Hours

TEST ITEM	RESULT [mg/dm²]			REPORT LIMIT [mg/dm²]	LIMIT [mg/dm²]
	SAMPLE 001 1st Migration	SAMPLE 001 2nd Migration	SAMPLE 001 3rd Migration		
Bisphenol A	ND	ND	ND	<0.01	0.04
Conclusion:	Pass*			--	--

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/dm²" denotes milligram per square decimeter
4. "ND" denotes below the Report Limit
5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments Regulation(EU)2018/213
6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

3.6 Specific Migration of Hexamethylenediamine (HMDA)

Test method: with reference to EN 13130-1 and CEN/TS 13130-21, follow by Gas Chromatography Mass Spectrometry (GC-MS).

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULT [mg/kg foodstuff]			REPORT LIMIT [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1st Migration	SAMPLE 001 2nd Migration	SAMPLE 001 3rd Migration		
Hexamethylenediamine	ND	ND	ND	<0.2	2.4
Conclusion:	Pass*			--	--

Note 1. "℃" denotes degree Celsius
2. "<" denotes less than
3. "mg/kg" denotes milligram per kilogram
4. "ND" denotes below the Report Limit
5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments
6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

3.7 Peroxide

Test method : With reference to 58th Communication on the testing of plastics, Bundesgesundheitsbl. 40 (1997) 412.

TEST ITEM	RESULTS	MAXIMUM PERMISSIBLE LIMIT
	SAMPLE 001	
Peroxide Value	Absent	Absent
Conclusion	Pass	-

Note:
- The specification was quoted from Recommendation of the BfR “Kunststoffe im Lebensmittelverkehr Part XV and Part VI

3.8 Sensory Test

Test for compliance with German Food and Feed Acts LFGB Section 31 and Regulation (EC) No. 1935/2004 Article 3(1)
Test method: With reference to DIN 10955:2004.
The submitted sample was treated with below test conditions. After this treatment, treated food simulant was examined by panels with regard to any divergence in smell and taste.

Test Item	Test Conditions	Grade Results	Recommend Level
		Sample 002	
Transfer of smell	Distilled water: 100°C for 2 Hours	1	<2.5
Transfer of taste	Distilled water: 100°C for 2 Hours	1	<2.5
Conclusion		Pass	-

Note:
- Explanation for grading are listed as below:
  - Grade 0 : No perceptible taste/smell deviation
  - Grade 1 : Just perceptible taste/smell deviation
  - Grade 2 : Weak taste/smell deviation
  - Grade 3 : Clear taste/smell deviation
  - Grade 4 : Strong taste/smell deviation

-- END OF TEST REPORT--