

Maidamax (M) SDN. BHD.
Lot 10-13, Jalan PKNK 1/2
Mr. Samuel Saw
Kawasan Perusahaan Sungai Petani
MY-08000 Sungai Petani, Kedah
Malaysia

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Connectivity & Products
Non Food

Taunusstein, 30/07/2021

Test-report no. 5390112
Test-report version < 1 >

Original Sample ID	Sample Description	Sample Receipt Date
210746876	Natural Rubber Feeding Teat, Batch No. 2021 / 06 / 897	21/06/2021

General Information

SGS-Client's ID	:	5436300
SGS-Customer-Order	:	5812940
Ordering date	:	15/06/2021
Testing period	:	23/06/2021 – 28/07/2021
Buyer	:	-
Order No.	:	1/21/06/070
Testing scope	:	Test according to test suggestion

Assessment

Overall assessment	Pass
The contents of all parameters tested are below their respective limits.	

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This test report was electronically created and released:

	date	name		function	department
created	30.07.2021	i. A.	Sabrina Baldauf	Teamassistentin	C&P Non Food Spezielle Analytik
released	02.08.2021	i.A.	Dr. Simone Kirchert	Customer Service Consultant	Toys & Juvenile Products

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Summary of results

Test	Result
Specific migration of formaldehyde (EN 14350:2020)	Pass
Colour release (EN 14350:2020)	Pass
Specific migration of primary aromatic amines	Pass
Migratable N-Nitrosamines and N-nitrosatable substances	Pass
Migration of certain elements incl. chromium VI (EN 14350:2020)	Pass
Specific migration of MBT & antioxidants (EN 14350:2020)	Pass

Note:

Conclusions on pass/fail are based on the test result from the actual sampling of the received sample(s). Conclusions are based on the relevant requirements; measurement uncertainties are not taken into account. Only results above the relevant detection limit are taken into account for the calculation of sums. Test was conducted on composite of random parts of the item as per client's request and the test result is the overall result. The composite sampling method is based on the client's special request and could be a modification from the testing standard. For 2-composite mix with results exceeding one half of the relevant requirements or 3-composite mix with results exceeding one third of the relevant requirements, the composite sample may have the possibility of one or more components that can lead to a failure result, it is recommended to test on individual basis.

Photo documentation



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Analytical results

Specific migration of formaldehyde (Ref. No: 17260/54880, CAS No: 50-00-0)

Test Method

The migration was carried out according to DIN EN 14350:2020-08. The determination was carried out according to EN 71-11.

simulant 3% acetic acid
 duration 24 hours
 temperature 40 +/- 2°C
 approach 1 teat per 150 ml

<u>Sample(s)</u>	<u>Unit</u>	<u>Result</u> 210746876
formaldehyde (50-00-0)	mg/kg	1st contact < 0.3
Conclusion		Pass

Note:

Requirement: max. 0.5 mg/L food simulant (DIN EN 14350:2020-08)

Colour release

Test Method

The determination was carried out according to DIN EN 143520:2020

<u>Sample(s)</u>	<u>Unit</u>	<u>Result</u> 210746876
3 % acetic acid		no colour release
coconut oil		no colour release
Conclusion		Pass

Note:

Requirement: no colour release (DIN EN 14350:2020)

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Specific migration of primary aromatic amines

Test Method

SOP M 1029 2020-12, Messung mit LC-MS/MS / SOP M 1029 2020-12, Measurement with LC-MS/MS

simulant 3% acetic acid
duration 24 hours
temperature 40 +/- 2°C
approach 6 dm²/L

Sample(s)

	<u>Unit</u>	<u>Result</u>
		210746876
		1st contact
aniline (62-53-3)	mg/kg	< 0.002
Sum of o- and m- and p- toluidine (95-53-4 u.108-44-1 u.106-49-0)	mg/kg	< 0.002
Sum of 2,4- and 2,6- toluylendiamine (95-80-7 und 823-40-5)	mg/kg	< 0.002
Sum of o- and m- anisidine (90-04-0 und 536-90-3)	mg/kg	< 0.002
benzidine (92-87-5)	mg/kg	< 0.002
4,4'-diaminodiphenylmethane (101-77-9)	mg/kg	< 0.002
4,4'-oxydianiline (101-80-4)	mg/kg	< 0.002
Sum of 4- and 3- chloroaniline (106-47-8 und 108-42-9)	mg/kg	< 0.002
p-kresidine (120-71-8)	mg/kg	< 0.002
4-chloro-o-toluidine (95-69-2)	mg/kg	< 0.002
4-aminobiphenyl (92-67-1)	mg/kg	< 0.002
3,3-dimethylbenzidine (119-93-7)	mg/kg	< 0.002
3,3'-dimethyl-4,4'-diaminodiphenylmethane (838-88-0)	mg/kg	< 0.002
Sum 1,2-and 1,3-and 1,4-phenylenediamine (95-54-5 u.108-45-2 u.106-50-3)	mg/kg	< 0.002
2,4-diaminoanisol (615-05-4)	mg/kg	< 0.002
Sum of 2,6- and 2,4- dimethylaniline (87-62-7 und 95-68-1)	mg/kg	< 0.002
1,5-diaminonaphthalene (2243-62-1)	mg/kg	< 0.002
conclusion single substance		Pass

Note:

Requirement: not detectable (< 0.01 mg/kg food simulant) (Regulation (EU) No 10/2011)

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Migratable N-Nitrosamines and N-nitrosatable substances

Test Method

Nitrosamines DIN EN 12868 2017-04

<u>Sample(s)</u>	<u>Unit</u>	<u>Limit of Quantification</u>	<u>Migratable N-Nitrosamines</u> 210746876	<u>Migratable N-nitrosatable substances</u> 210746876
N-Nitrosodimethylamine (NDMA)	mg/kg	0.001	< 0.001	< 0.001
N-Nitrosodiethylamine (NDEA)	mg/kg	0.001	< 0.001	< 0.001
N-Nitrosodipropylamine (NDPA)	mg/kg	0.001	< 0.001	< 0.001
N-Nitrosodibutylamine (NDBA)	mg/kg	0.001	< 0.001	< 0.001
N-Nitrosopiperidine (NPIP)	mg/kg	0.001	< 0.001	< 0.001
N-Nitrosopyrrolidine (NPYR)	mg/kg	0.001	< 0.001	< 0.001
N-Nitrosomorpholine (NMOR)	mg/kg	0.001	< 0.001	< 0.001
N-Nitrosodiisobutylamine (NDiBA)	mg/kg	0.001	< 0.001	< 0.001
N-Nitrosodibenzylamine (NDBzA)	mg/kg	0.005	< 0.005	< 0.005
N-Nitroso-N,N-di(3,5,5-trimethylhexyl)amine (NDiNA)	mg/kg	0.005	< 0.005	< 0.005
N-Nitroso N-methyl N-phenylamine (NMPHA)	mg/kg	0.005	< 0.005	< 0.005
N-Nitroso N-ethyl N-phenylamine (NEPhA)	mg/kg	0.005	< 0.005	< 0.005
Total	mg/kg		< 0.005	< 0.005
Corrected value ^[1]	mg/kg		-	-
Quantity allowed, max. ^[2]	mg/kg		0.01	0.1
Conclusion			Pass	Pass

Note:

For the summation of all Nitrosamines only those with a result above the limit of quantification will be taken into account.

^[1] Taking into account the results of a collaborative trial initiated by CEN, the standard DIN EN 12868 (9. Analytical tolerances) provides for an adjustment of the results of the analysis with regard to the sum of the migratable N-nitrosamines by 0.01 mg/kg and of the migratable N-nitrosatable substances by 0.1 mg/kg if the established value is above the required value of 0.01 mg/kg or 0.1 mg/kg, respectively (in accordance with a tolerance of 100 per cent at the required limit of 0.01 mg/kg or 0.1 mg/kg, respectively).

^[2] according to guideline 93/11/EG, Art. 2 (Abl. EG Nr. L 93 S. 37)

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Migration of certain elements incl. Chromium VI

Test Method

EN 14350:2020, Analysis was conducted according to DIN EN 71-3:2019-08 by Inductively Coupled Argon Plasma Spectrometry

<u>Sample(s)</u>	<u>Unit</u>	<u>Result</u> 210746876
Aluminum (Al)	mg/kg	< 10
Antimony (Sb)	mg/kg	< 1.0
Arsenic (As)	mg/kg	< 0.5
Boron (B)	mg/kg	< 10
Barium (Ba)	mg/kg	< 1
Cadmium (Cd)	mg/kg	< 0.1
Cobalt (Co)	mg/kg	< 1.0
Chromium (Cr), total	mg/kg	< 0.200 ^[1]
Chromium VI (CrVI)	mg/kg	< 0.005
Copper (Cu)	mg/kg	< 1.0
Manganese (Mn)	mg/kg	< 1.0
Nickel (Ni)	mg/kg	< 1.0
Lead (Pb)	mg/kg	< 0.5
Selenium (Se)	mg/kg	< 1.0
Tin (Sn)	mg/kg	< 0.080
Strontium (Sr)	mg/kg	< 10
Zinc (Zn)	mg/kg	< 10
Mercury (Hg)	mg/kg	< 1.0
Conclusion		Pass

Note:

^[1] higher limit of quantification due to analytical interferences

<u>Parameter</u>	<u>Unit</u>	<u>EN 14350:2020 Requirement</u>
Aluminum (Al)	mg/kg	6000
Antimony (Sb)	mg/kg	120
Arsenic (As)	mg/kg	10
Boron (B)	mg/kg	3200
Barium (Ba)	mg/kg	4000
Cadmium (Cd)	mg/kg	3,6
Cobalt (Co)	mg/kg	28
Chromium (Cr), total	mg/kg	100
Chromium VI (CrVI)	mg/kg	0.002 ^[1]
Copper (Cu)	mg/kg	1660
Manganese (Mn)	mg/kg	600
Nickel (Ni)	mg/kg	56
Lead (Pb)	mg/kg	5,0
Selenium (Se)	mg/kg	100
Tin (Sn)	mg/kg	40000
Organic Tin	mg/kg	2.5
Strontium (Sr)	mg/kg	12000
Zinc (Zn)	mg/kg	10000
Mercury (Hg)	mg/kg	20

^[1] If the result is below the Limit of Quantification of DIN EN 71-3, the sample is to be considered passed.

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Specific migration of MBT & antioxidants

Test Method

DIN EN 14350:2020. The migration was carried out according to DIN EN 71-10. The determination was carried out according to DIN EN 71-11.

Simulant water
 Duration 95 minutes
 Temperature 20 +/- 1°C
 Approach 1 part per 150 ml

<u>Sample(s)</u>	<u>Unit</u>	<u>Result</u> 210746876	<u>Requirement</u> ^[1]
2-MBT	mg/l	< 0.1	max 8.0
BHT	mg/l	< 0.1	max. 0.3125
A-2246	mg/l	< 0.03	Sum: max.0.0625
Cyanox 425	mg/l	< 0.03	
Wingstay L	mg/l	< 0.1	max.0.25
Irganox	mg/l	< 0.1	max.0.25
Conclusion		Pass	

Note:

^[1] according to EN 14350:2020

For the summation only those antioxidants with a result over the limit of quantification will be taken into account.

*** End of test report ***

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