

Danske Juletræer - træer & grønt
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Eurofins Product Testing A/S
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TEST REPORT

26 January 2023

Sample Information

Sample name	Plastik juletræ
Sample reception	09/01/2023
Sample no.	392-2023-00005801
Analysis period	10/01/2023 - 26/01/2023

Results

Please see enclosure with detailed results.

Conclusion

The sample **does not comply** with the requirements in REACH Annex XVII for the content of the phthalates Dibutylphthalate (DBP), Diethylhexylphthalate (DEHP) and Diisononylphthalate (DINP). The high content is measured on a mix of green plastic from the needles of the Christmas tree and the black soft plastic coming from the foot of the tree.

Eurofins Product Testing A/S



Jeanette K. Pedersen
Analytical Service Manager

Version History

Report date	Report number	Modification
26/01/2023	392-2023-00005801_FP_EN	Current version

The results are only valid for the tested sample(s).
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392-2023-00005801_FP_EN

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Report Code AR-23-FZ-002247-01



Project No EFFZ23011244-CG-01

AB-1356-T

AR-23-FZ-002247-01

01-23

TEST REPORT

Applicant : Eurofins Product Testing Denmark A/S
Contact Person : Jeanette Kriegbaum Pedersen
Address : Smedeskovvej 38, Galten, DENMARK, DENMARK, 8464
Sample Not Drawn by Eurofins Tüketici Ürünleri Test Hizmetleri A.Ş
Sample Receiving Date : 16/Jan/2023
Testing Period : 16/Jan/2023 to 24/Jan/2023
Service Type : Regular
Result Summary : **FAIL**

Sample No. : 339-2301-01550
Sample Name : Green Christmastree
Component No : A
Buyer Name : Eurofins Product Testing Denmark A/S
Colour Name : Green
Article No. : 392-2023-00005801
Style No. : 392-2023-00005801
Supplier Name : Eurofins Product Testing Denmark A/S
Country of Destination : Europe

Eurofins accredited by TÜRKAK under registration number [AB-1356-T] for [TS EN ISO IEC 17025] as test laboratory. Turkish Accreditation Agency (TURKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports.

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The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

Report Code AR-23-FZ-002247-01**Project No** EFFZ23011244-CG-01

Eurofins Consumer Product Testing Turkey Contact Information

Customer Service Representative:
Büşra Torun
BusraTorun@eurofins.com

Signed for and on behalf of Eurofins Tüketici Ürünleri Test Hizmetleri A.Ş.

The following test(s) was (were) performed on submitted sample(s) and/or component(s) confirmed by applicant. Tests marked ♦ in this report are not included in the scope of accreditation. Tests marked ○ in this report are subcontracted within Eurofins Group and is accredited. Tests marked ● in this report are subcontracted within Eurofins Group and is not accredited. Tests marked □ in this report are subcontracted outside Eurofins Group and is accredited. Tests marked ■ in this report are subcontracted outside Eurofins Group and is not accredited. Unless otherwise requested, this laboratory applies shared risk decision rule. Unless otherwise specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95 %. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025 requirements. The uncertainty originating from the sample have not been included to the uncertainty measurement and the sample is tested in the laboratory as received.

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Consumer Product Testing Turkey ensures that this job has been performed according to our Quality System and complying contract and legal conditions. Test uncertainties not reported are at customer disposal. If you happen to have any comments, please do it by sending email to CPT.Turkey@eurofins.com and referring to this report number.

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Project No EFFZ23011244-CG-01

Conclusion:

Test Property	Sample/Component	Pass	Fail	Remarks
Safety of Toys Part 2: Flammability of Toy	A	X	-	-
Safety of Toys Part 3: Migration of Certain Elements	1	X	-	-
	2	X	-	-
	3	X	-	-
	4	X	-	-
	5	X	-	-
	6	X	-	-
	7	X	-	-
Alkylphenols and Alkylphenol Ethoxylates	1 + 2 + 3	X	-	-
	4 + 5	X	-	-
	6 + 7	X	-	-
Phthalates	1 + 2 + 3	X	-	-
	4 + 5	X	-	-
	6 + 7	-	X	-
Polycyclic Aromatic Hydrocarbons (PAHs)	1 + 2 + 3	X	-	-
	4 + 5	X	-	-
	6 + 7	X	-	-
Organotin	1 + 2 + 3	X	-	-
	4 + 5	X	-	-
	6 + 7	X	-	-
Chlorinated Paraffins (SCCPs)	1 + 2 + 3	X	-	-
	4 + 5	X	-	-
	6 + 7	X	-	-
Total Lead	1 + 2 + 3	X	-	-
	4 + 5	X	-	-
	6 + 7	X	-	-
Total Cadmium	1 + 2 + 3	X	-	-
	4 + 5	X	-	-
	6 + 7	X	-	-
Perfluorinated Compounds (PFCs)	1 + 2 + 3	X	-	-
	4 + 5	X	-	-
	6 + 7	X	-	-

* Result conformity assessment was made according to Reach Annex XVII

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P : Meets buyer's requirement
F : Does not meet buyer' s requirement
NR : No requirement
SC : Still continues
LS : Lack of sample
I : Inconclusive

Component List

Component ID.	Component	Material	Color	Remark
A	Green Christmastree	Other	Green	
1	Green Plastic Around The Metal Parts	Plastic	Green	
2	Black Plastic Around The Metal Parts	Plastic	Black	
3	Grey Plastic Around The Metal Parts	Plastic	Grey	
4	Yellow Plastic Around The Metal Parts	Plastic	Yellow	
5	Red Plastic Around The Metal Parts	Plastic	Red	
6	Green Plastic For The Needles	Plastic	Green	
7	Black Soft Plastic For The Foot	Soft Plastic	Black	

Report Code AR-23-FZ-002247-01**Project No** EFFZ23011244-CG-01**Safety of Toys Part 2: Flammability of Toy**

EN 71-2:2020

Test Parameters	Result
	A
Results	PASS
4.1 General	Pass

Remark:

Remark 1: This report details the clauses appropriate to this item. Those clauses not referred to were considered not applicable.

Remark 2: The test results thus obtained cannot be considered as providing an overall indication of the potential fire hazard of toys or materials when subjected to other sources of ignition.

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Project No EFFZ23011244-CG-01

Safety of Toys Part 3: Migration of Certain Elements

EN 71-3:2021

Test Item(s):	Unit	Result						
		1	2	3	4	5	6	7
Category Type III								
Aluminium (Al)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Boron (B)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Total chromium (as Cr)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Chromium (Cr) (III)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Chromium (Cr) (VI)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Organotin sum (o-Sn)	mg/kg	ND	ND	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	ND	ND	ND	ND	ND	ND	ND

Note:

1 – If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).

#2 – In particular Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total Chromium concentration.

#3 – The migration of organic tin is expressed as tributyltin.

Safety of Toys Part 3: Migration of Certain Elements (Quantification by ICP-MS)

Remarks: Measurement Uncertainty: $\pm 19\%$

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Project No EFFZ23011244-CG-01

Limits –MDL per category type:

Test Item(s):	Unit	Requirement	MDL
		Category III	
Aluminium (Al)	mg/kg	≤ 28130	50
Antimony (Sb)	mg/kg	≤ 560	10
Arsenic (As)	mg/kg	≤ 47	5
Barium (Ba)	mg/kg	≤ 18750	50
Boron (B)	mg/kg	≤ 15000	50
Cadmium (Cd)	mg/kg	≤ 17	1
Chromium (Cr) #1	mg/kg	≤ -	0.02
Chromium (Cr) (III) #2	mg/kg	≤ 460	10
Chromium (Cr) (VI)	mg/kg	≤ 0.053	0.02
Cobalt (Co)	mg/kg	≤ 130	10
Copper (Cu)	mg/kg	≤ 7700	50
Lead (Pb)	mg/kg	≤ 23	10
Manganese (Mn)	mg/kg	≤ 15000	50
Mercury (Hg)	mg/kg	≤ 70000	10
Nickel (Ni)	mg/kg	≤ 930	10
Selenium (Se)	mg/kg	≤ 460	10
Strontium (Sr)	mg/kg	≤ 56000	50
Tin (Sn)	mg/kg	≤ 180000	50
Organic Tin #3	mg/kg	≤ 12	0.2
Zinc (Zn)	mg/kg	≤ 46000	50

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-” = Not Regulated

Report Code AR-23-FZ-002247-01**Project No** EFFZ23011244-CG-01

Toy Material	Category 1	Category 2	Category 3
Coatings of paints, varnishes, lacquers, printing inks, polymers, foams and similar coatings			X
Polymeric and similar materials, including laminates, whether textile reinforced or not, but excluding other textiles			X
Paper and paper board			X
Textiles, whether natural or synthetic			X
Glass, ceramic, metallic materials			X
Wood, fibre board, hard board, bone, leather and other Solid materials			X
Compressed paint tablets, materials intended to leave a trace or similar materials in solid form appearing as such in the toy (e.g. the cores of colouring pencils, chalk, crayons)	X		
Pliable modelling materials, including modelling clays and plaster	X		
Liquid paints, including finger paints, varnishes, lacquers, liquid ink in pens and similar materials in liquid form appearing as such in the toy (e.g. slimes, bubble solution)		X	
Glue sticks		X	

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Organotin

EN 71-3:2021

Test Item(s):	Unit	Result		
		1+2+3	4+5	6+7
Category Type III				
Tributyltin (TBT)		ND	ND	ND
Tetrabutyltin (TTBT)	mg/kg	ND	ND	ND
Monooctyltin (MOT)	mg/kg	ND	ND	ND
Monobutyltin (MBT) - Sn	mg/kg	ND	ND	ND
Tributyltin (TBT) - Sn	mg/kg	ND	ND	ND
Dioctyltin (DOT) - Sn	mg/kg	ND	ND	ND
Triphenyltin (TPhT) - Sn	mg/kg	ND	ND	ND
Diphenyltin (DPhT)	mg/kg	ND	ND	ND
Methyltin	mg/kg	ND	ND	ND
DMT	mg/kg	ND	ND	ND
DPT	mg/kg	ND	ND	ND
Monoheptyltriethyltin (MHeT)	mg/kg	ND	ND	ND

Note:

1 – If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).

2 – In particular Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total Chromium concentration.

3 – The migration of organic tin is expressed as tributyltin.

Safety of Toys Part 3: Migration of Certain Elements (Quantification by ICP-MS)

Remarks: Measurement Uncertainty: ±19%

Limits –MDL per category type:

Test Item(s):	Unit	Requirement	MDL
		Category III	
Organic Tin 3	mg/kg	≤ 12	0.2

Category III: scrapped-off toy material

“-” = Not Regulated

Report Code AR-23-FZ-002247-01



Project No EFFZ23011244-CG-01

Toy Material	Category 1	Category 2	Category 3
Coatings of paints, varnishes, lacquers, printing inks, polymers, foams and similar coatings			X
Polymeric and similar materials, including laminates, whether textile reinforced or not, but excluding other textiles			X
Paper and paper board			X
Textiles, whether natural or synthetic			X
Glass, ceramic, metallic materials			X
Wood, fibre board, hard board, bone, leather and other Solid materials			X
Compressed paint tablets, materials intended to leave a trace or similar materials in solid form appearing as such in the toy (e.g. the cores of colouring pencils, chalk, crayons)	X		
Pliable modelling materials, including modelling clays and plaster	X		
Liquid paints, including finger paints, varnishes, lacquers, liquid ink in pens and similar materials in liquid form appearing as such in the toy (e.g. slimes, bubble solution)		X	
Glue sticks		X	

Alkylphenols and Alkylphenol Ethoxylates

Eurofins IHTM is based on ISO 18254-1:2016

Test Parameters	CAS No.	Unit	LOQ	Result			Requirements
				1+2+3	4+5	6+7	
Nonylphenol Ethoxylates (NPEO)	68412-54-4	mg/kg	2	ND	31.6	ND	< 100 mg/kg
OPEO (OCTYL PHENOLS ETHOXYLATES)	9036-19-5	mg/kg	2	ND	ND	ND	
Nonylphenol (NP)	104-40-5	mg/kg	2	ND	ND	ND	
Octylphenol (OP)	140-66-9	mg/kg	2	ND	ND	ND	

Remarks:

Measurement Uncertainty: ±17%

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Phthalates

ISO 14389:2014

Test Parameters	CAS No.	Unit	LOQ	Result			Requirements
				1+2+3	4+5	6+7	
Di-iso-butylphthalate (DIBP)	84-69-5	mg/kg	50	ND	ND	ND	< 1000 mg/kg (%0.1)
Dibutylphthalate (DBP)	84-74-2	mg/kg	50	ND	ND	1400	
Butylbenzylphthalate (BBP)	85-68-7	mg/kg	50	ND	ND	ND	
Di-(2-ethylhexyl)-phthalate (DEHP)	117-81-7	mg/kg	50	ND	ND	3462	
Di-n-octylphthalate (DNOP)	117-84-0	mg/kg	50	ND	ND	ND	
Di-iso-nonylphthalate (DINP)	68515-48-00	mg/kg	50	ND	ND	6889	
Di-isodecylphthalate(DIDP)	26761-40-0	mg/kg	50	ND	ND	ND	

Remarks:

 Measurement Uncertainty: $\pm 8\%$

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Polycyclic Aromatic Hydrocarbons (PAHs)

AfPS GS 2019:01 PAK

Test Parameters	CAS No.	Unit	LOQ	Result			Requirements
				1+2+3	4+5	6+7	
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND	ND	ND	≤ 1.0 mg/kg each PAH
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND	ND	ND	
Benzo(b)fluoranthene(BbFA)	205-99-2	mg/kg	0.1	ND	ND	ND	
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND	ND	ND	
Benzo(j)fluoranthene (BjFA)	205-82-3	mg/kg	0.1	ND	ND	ND	
Benzo(k)fluoranthene (BkFA)	207-08-9	mg/kg	0.1	ND	ND	ND	
Chrysen(CHR)	218-01-9	mg/kg	0.1	ND	ND	ND	
Dibenzo(a,h)anthracene(DBAhA)	53-70-3	mg/kg	0.1	ND	ND	ND	

Remarks:

Measurement Uncertainty:± 13%

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Chlorinated Paraffins (SCCPs)

ISO 18219-1:2021

Test Parameters	CAS No.	Unit	LOQ	Result			Requirements
				1+2+3	4+5	6+7	
Short chain chlorinated paraffin's C10-C13 (SCCP)	85535-84-8	mg/kg	20	ND	ND	ND	< 1000 mg/kg

Remarks:

Measurement Uncertainty: ±24%

Total Lead

EN 16711-1:2015

Test Item(s)	Unit	MDL	Result			Requirements
			1+2+3	4+5	6+7	
Lead (Pb)	mg/kg	0.5	ND	ND	ND	< 500 mg/kg

Remark:

Measurement Uncertainty: ±17%

Total Cadmium

EN 16711-1:2015

Test Item(s)	Unit	MDL	Result			Requirements
			1+2+3	4+5	6+7	
Cadmium (Cd)	mg/kg	0.05	ND	ND	ND	< 100 mg/kg

Remark:

Measurement Uncertainty: ±22%

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Perfluorinated Compounds (PFCs)

CEN/TS 15968:2010

Test Parameters	CAS No.	Unit	LOQ	Result			Requirements
				1+2+3	4+5	6+7	
Perfluorooctanoic Acid (PFOA)	335-67-1	mg/kg	2	ND	ND	ND	not detected
Perfluorooctane sulfonate (PFOS)	45298-90-6	mg/kg	2	ND	ND	ND	

Remarks:Measurement Uncertainty: $\pm 16\%$

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Sample Photo



***** END OF THE REPORT *****