

TEST REPORT

Test Report # 23A-010388 Date of Report Issue: August 30, 2023
Date of Sample Received: August 18, 2023 Pages: Page 1 of 17

CLIENT INFORMATION:

Company: Go handmade Dsign International A/S
Address: Madevej 11-13, 6200 Aabenraa, Denmark



SAMPLE INFORMATION:

Product Name: TPE teether DIY
Style No.: 22079, 22084, 22089, 16315 Labeled Age Grade: -
Order No.(PO No.): - Client Request Age Grade: infant
Country of Origin: - Recommended Age Grade: -
Country of Distribution: Europe Tested Age Grade: -
Buyer Name: Go handmade Dsign International A/S
Testing Period: 08/21/2023-08/30/2023

OVERALL RESULT:

PASS

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

Jeremy Xu
Chemical Laboratory Supervisor



QIMA (Hangzhou) Testing Co., Ltd. • Room 401,4-5/F, Building 1, No.1213 Huojia South Road, Puyan Subdistrict, Binjiang District, Hangzhou, China

Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.

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TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	EN 71-3: 2019+A1:2021 Safety of Toys, Migration of Certain Elements
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials
PASS	Directive 2009/48/EC Safety of Toys as Amended by Directive (EU) 2019/1929, Formaldehyde in Polymeric Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 20 Organostannic Compounds
PASS	EN 71-9:2005+A1:2007 Safety of Toys – Part 9, Organic Chemical Compounds – 2B Colourants
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Regulation (EC) No. 2019/1021 Persistent Organic Pollutants, ANNEX I – Short Chain Chlorinated Paraffins C10-C13
PASS	Directive 2009/48/EC Safety of Toys as Amended by 2017/898/EU, Bisphenol A (BPA) in Toys
PASS	Directive 2009/48/EC Safety of Toys as Amended by 2017/774/EU, Phenol in Toys
PASS	Directive 2009/48/EC Safety of Toys as Amended by 2014/79/EU, Tris (1,3-Dichloro-2-propyl) Phosphate (TDCPP), Tris (2-Chloroethyl) Phosphate (TCEP) and Tris (1-Chloro-2-Propyl) Phosphate (TCPP)
PASS	EN 71-9:2005+A1:2007 Safety of Toys – Part 9, Organic Chemical Compounds – 2C Primary Aromatic Amines
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)



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DETAILED RESULTS:

EN 71-3: 2019+A1:2021 Safety of Toys, Migration of Certain Elements

Test Method: EN 71-3:2019+A1:2021

Analytical Method: Inductively Coupled Plasma-Mass Spectrometry

Category III: Scraped-off materials

Specimen No.	1	---	---	---	RL (mg/kg)	Soluble Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)		
Aluminum (Al)	ND	---	---	---	50	28 130
Antimony (Sb)	ND	---	---	---	10	560
Arsenic (As)	ND	---	---	---	10	47
Barium (Ba)	ND	---	---	---	50	18 750
Boron (B)	ND	---	---	---	50	15 000
Cadmium (Cd)	ND	---	---	---	5	17
Chromium III (Cr III)^	ND	---	---	---	0.2	460
Chromium VI (Cr VI)^	ND	---	---	---	0.05	0.053
Cobalt (Co)	ND	---	---	---	10	130
Copper (Cu)	ND	---	---	---	50	7 700
Lead (Pb)	ND	---	---	---	10	23
Manganese (Mn)	ND	---	---	---	50	15 000
Mercury (Hg)	ND	---	---	---	10	94
Nickel (Ni)	ND	---	---	---	50	930
Selenium (Se)	ND	---	---	---	10	460
Strontium (Sr)	ND	---	---	---	50	56 000
Tin (Sn)	ND	---	---	---	1	180 000
Organic Tin^^	ND	---	---	---	3.3	12
Zinc (Zn)	ND	---	---	---	50	46 000
Conclusion	PASS	---	---	---		

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected. Result value is less than reporting limit (RL).

^Soluble Chromium is reported when the soluble chromium result below the chromium VI limit.

^^ Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.3 mg/kg) or the components were confirmed to be pure metal.



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	500
Conclusion	PASS	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	---	---	---	---	100
Conclusion	PASS	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)



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DETAILED RESULTS:

Directive 2009/48/EC Safety of Toys as Amended by Directive (EU) 2019/1929, Formaldehyde in Polymeric Materials

Test Method: EN 71-10:2005, EN 71-11:2005

Analytical Method: High Performance Liquid Chromatography with Diode Array Detector

Specimen No.	1	---	---	---	Migration Limit (mg/L)
Test Item	CAS No.	Result (mg/L)	Result (mg/L)	Result (mg/L)	
Formaldehyde	50-00-0	ND	---	---	1.5
Conclusion	PASS	---	---	---	

Note:

mg/L = Milligrams per litre

NA = Not applicable

LT = Less than

ND = Not detected (Reporting Limit = 0.5 mg/L)



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 20 Organostannic Compounds

Test Method: In-House method
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Tributyltin (TBT)	ND	---	---	---	---	
Triphenyltin (TPhT)	ND	---	---	---	---	
Sum of TBT and TPhT	ND	---	---	---	---	1000
Dibutyltin (DBT)	ND	---	---	---	---	1000
Dioctyltin (DOT)	ND	---	---	---	---	1000
Conclusion	PASS	---	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit =100mg/kg)



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DETAILED RESULTS:

EN 71-9:2005+A1:2007 Safety of Toys – Part 9, Organic Chemical Compounds – 2B Colourants

Test Method: EN 71-10:2005, EN 71-11:2005

Test Instrument: Liquid Chromatography-Mass Spectrometer (LC-MS)

Specimen No.		1	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Disperse Blue 1	2475-45-8	ND	---	---	---	10
Disperse Blue 3	2475-46-9	ND	---	---	---	10
Disperse Blue 106	12223-01-7	ND	---	---	---	10
Disperse Blue 124	61951-51-7	ND	---	---	---	10
Disperse Yellow 3	2832-40-8	ND	---	---	---	10
Disperse Orange 3	730-40-5	ND	---	---	---	10
Disperse Orange 37/76	12223-33-5 13301-61-6	ND	---	---	---	10
Disperse Red 1	2872-52-8	ND	---	---	---	10
Solvent Yellow 1	60-09-3	ND	---	---	---	10
Solvent Yellow 2	60-11-7	ND	---	---	---	10
Solvent Yellow 3	97-56-3	ND	---	---	---	10
Basic Red 9	569-61-9	ND	---	---	---	10
Basic Violet 1	8004-87-3	ND	---	---	---	10
Basic Violet 3	548-62-9	ND	---	---	---	10
Acid Red 26	3761-53-3	ND	---	---	---	10
Acid Violet 49	1694-09-3	ND	---	---	---	10
Conclusion		PASS	---	---	---	

Note:

mg/kg=milligram per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 10 mg/kg)



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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)

Test Method: AfPS GS 2019:01

Analytical Method: Gas Chromatography with Mass Spectrometry

Toys and childcare articles

Specimen No.	1	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Benzo [a] pyrene (BaP)	50-32-8	ND	---	---	0.5
Benzo [e] pyrene (BeP)	192-97-2	ND	---	---	0.5
Benzo [a] anthracene (BaA)	56-55-3	ND	---	---	0.5
Chrysene (CHR)	218-01-9	ND	---	---	0.5
Benzo [b] fluroranthene (BbFA)	205-99-2	ND	---	---	0.5
Benzo [j] fluroranthene (BjFA)	205-82-3	ND	---	---	0.5
Benzo [k] fluroranthene (BkFA)	207-08-9	ND	---	---	0.5
Dibenzo [a,h] anthracene (DBAhA)	53-70-3	ND	---	---	0.5
Conclusion	PASS	---	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)



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DETAILED RESULTS:**Regulation (EC) No. 2019/1021 Persistent Organic Pollutants, ANNEX I – Short Chain Chlorinated Paraffins C10-C13**

Test Method: CHHZ005.TP-A1 (refer to US EPA 3540C:1996&US EPA 3550C:2007&US EPA 8270D:2014)

Analytical Method: NCI Gas Chromatography with Mass Spectrometry

Articles*

Specimen No.	1	---	---	---	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Short Chain Chlorinated Paraffins C10-C13 (SCCP)	85535-84-8	ND	---	---	---
Conclusion	PASS	---	---	---	
					Limit (mg/kg)
					1500

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 100 mg/kg)

*Article: An object composed of one or more substances and/or preparations which during production is given a specific shape, surface or design determining its end use function to a greater extent than its chemical composition does.



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DETAILED RESULTS:

Directive 2009/48/EC Safety of Toys as Amended by 2017/898/EU, Bisphenol A (BPA) in Toys

Test Method: With reference to EN 71-10:2005+EN 71-11:2005
Analytical Method: High Performance Liquid Chromatography with Mass Spectrometry Mass Spectrometry (HPLC-MS/ MS)

Specimen No.	1	---	---	---	Limit (mg/L)
Test Item	CAS No.	Result (mg/L)	Result (mg/L)	Result (mg/L)	
Bisphenol A (BPA)	80-05-7	ND	---	---	0.04
Conclusion	PASS	---	---	---	

Note:

mg/L = Milligrams per liter

LT = Less than

ND = Not detected (Reporting Limit = 0.04 mg/L)



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DETAILED RESULTS:

Directive 2009/48/EC Safety of Toys as Amended by 2017/774/EU, Phenol in Toys

Test Method: With reference to EN 71-10:2005+EN 71-11:2005

Analytical Method: High Performance Liquid Chromatography (HPLC)

Specimen No.		1	---	---	---	Limit (mg/L)
Test Item	CAS No.	Result (mg/L)	Result (mg/L)	Result (mg/L)	Result (mg/L)	
Phenol	108-95-2	ND	---	---	---	5
Conclusion		PASS	---	---	---	

Note:

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LT = Less than

ND = Not detected (Reporting Limit = 5 mg/L)



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DETAILED RESULTS:

Directive 2009/48/EC Safety of Toys as Amended by 2014/79/EU, Tris (1,3-Dichloro-2-propyl) Phosphate (TDCPP), Tris (2-Chloroethyl) Phosphate (TCEP) and Tris (1-Chloro-2-Propyl) Phosphate (TCPP)

Test Method: In-House Method
Analytical Method: Liquid Chromatography with Mass Spectrometry

Specimen No.		1	---	---	---	
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Limit (mg/kg)
Tris (1,3-dichloro-2-propyl) phosphate (TDCPP)	13674-87-8	ND	---	---	---	5
Tris (2-chloroethyl) phosphate (TCEP)	115-96-8	ND	---	---	---	5
Tris (1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	ND	---	---	---	5
Conclusion		PASS	---	---	---	

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DETAILED RESULTS:

EN 71-9:2005+A1:2007 Safety of Toys – Part 9, Organic Chemical Compounds – 2C Primary Aromatic Amines

Test Method: EN 71-10:2005, EN 71-11:2005
 Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

Specimen No.		1	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzidine	92-87-5	ND	---	---	---	5
2-Naphthylamine	91-59-8	ND	---	---	---	5
4-Chloroaniline	106-47-8	ND	---	---	---	5
3,3'-Dichlorobenzidine	91-94-1	ND	---	---	---	5
3,3'-Dimethoxybenzidine	119-90-4	ND	---	---	---	5
3,3'-Dimethylbenzidine	119-93-7	ND	---	---	---	5
o-Toluidine	95-53-4	ND	---	---	---	5
2-Methoxyaniline (o-Anisidine)	90-04-0	ND	---	---	---	5
Aniline	62-53-3	ND	---	---	---	5
Conclusion		PASS	---	---	---	

Note:

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LT = Less than

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DETAILED RESULTS:

Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	---	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	---	---	1000
Sum of DBP, BBP, DEHP, DIBP		ND	---	---	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	---	---	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	
Sum of DnOP, DINP, DIDP		ND	---	---	1000
Conclusion		PASS	---	---	

Note:

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)



QIMA (Hangzhou) Testing Co., Ltd. • Room 401,4-5/F, Building 1, No.1213 Huoju South Road, Puyan Subdistrict, Binjiang District, Hangzhou, China

Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.

Test(s) marked with 'Ø' was subcontracted to external laboratory.

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein.

If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule

<https://www.qima.com/conditions-of-service#decisionRule>.

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SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Dull blue soft plastic	Main body (circle style)



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SAMPLE PHOTO:



-End Report-

