

## Test Report

Number: SZHH01533577

Applicant: LIFETIME PLASTIC PRODUCT LIMITED  
NO.568 SHANBIAN ROAD,  
DONGFU TOWN, HAICANG  
DISTRICT, XIAMEN, FUJIAN 361027

Date: Feb 01, 2021

Attn: RECKY MA

### Sample Description:

Five (5) pieces of submitted sample said to be :  
Item Name : **BBS Youth System.**  
Item No. : **90022.**  
Labelled Age Group : Intended for ages 6 to 12 years.  
Applicant Specified Age : From 6 to 12 years.  
Grading for Testing :  
Packaging Provided by Applicant : Yes.  
Additional Material and Wet Paint Provided : No.  
Manufacturer : Xiamen Ponder Metal Products Co., Ltd.  
Country of Origin : China  
Date Sample Received : Jan 14, 2021.  
Testing Period : Jan 14, 2021 ~ Jan 29, 2021.



### Tests conducted:

As requested by the applicant, refer to attached page(s) for details.



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Conclusion:

<u>Tested Samples</u> Submitted sample(s)	<u>Standard</u> EN 71-1: 2014+A1: 2018 for mechanical and physical properties	<u>Result</u> Pass
	EN71 Part 2: 2011+A1: 2014 Flammability test	Pass
Tested component(s) of submitted sample(s)	EU REACH Regulation (EC) No 1907/2006 Article 33(1) Obligation to provide information of safe use (see REACH and WFD requirement in report for details)	Meet Requirement
Tested component(s) of submitted samples	<u>Standard/Testing Item</u> EN 71-3:2019 on migration of certain elements and (EU) 2019/1922 amending 2009/48/EC (applies from 20 May 2021) for Aluminium migration	Pass
	Phthalates Content Requirement in Annex XVII Entry 51 & 52 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) 2018/2005	Pass

Authorized by:  
For Intertek Testing Services  
Shenzhen Ltd.



Rachel L. Guo  
General Manager



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Tests Conducted

1 Mechanical and Physical Test

As per European Standard on Safety of toys EN 71-1: 2014+A1: 2018.

Clause	Testing items	Assessment
4	General requirements	
4.1	Material	P
4.2	Assembly	P
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	P
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA



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Clause	Testing items	Assessment
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	P
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA



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Remark : P = Pass NA = Not Applicable

Remark : Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN 71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

	Toy	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Present	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Present	Present
CE-marking	Absent	Present

Below is additional information checking according to the UK Toy (Safety) Regulations requirement.

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself.

After checking, it was found that

	Toy	Packaging
Name of authorised representative in Great Britain	Absent	Present
Address of authorised representative in Great Britain	Absent	Present
Product identification code	Present	Present

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy published on 1 September 2020.

After checking UKCA marking, it was found that

	Toy	Packaging
UKCA marking	Absent	Absent



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2 Flammability Test

As per European Standard on Safety of Toys EN71-2: 2011+A1: 2014

Clause	Testing items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark: P = Pass NA = Not applicable

3 SVHC Testing Results

By Inductively Coupled Plasma Optical Emission Spectrometry, Ion Chromatography, UV-Visible Spectrophotometry, Gas Chromatographic - Mass Spectrometry, Liquid Chromatographic / Tandem Mass Spectrometer and High Performance Liquid Chromatography analysis.

Table (P2)

Chemical Substance	Results % (w/w) $\theta$	
	Tested components	Packaging materials
Tested SVHCs in Chemical list	ND	ND

- SVHC = Substance of very high concern
- ND = Not detected (less than reporting limit)
- Reporting limit = 0.1%
- $\theta$  = Single result for each test component/group

Remark: As requested by applicant, test was conducted only on component(s) listed in this report.

Test components:

- (1) Silver color metal with backcoating (holder of backboard)
- (2) Silver color metal withorange coating (ring of rim)
- (3) Silver color metal withorange coating (holder of netof rim)
- (4) Silver color metal withorange coating (back of rim)
- (5) Silver color solder withorange coating (joint rim)
- (6) Silver color metal with backcoating (brace)
- (7) Silver color metal withcoating (tube)
- (8) Silver color metal withcoating (inner tube)
- (9) Silver color metal (AJB)
- (10) Silver color metal (big washerof AAT)
- (11) Silver color metal (screw ofADS)
- (12) Silver color metal (bolt ofACV)
- (13) Silver color metal (mediumwasher of AAF)



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- (14) Silver color metal (smallwasher of AEC)
- (15) Silver color metal (ACM)
- (16) Silver color metal (nut of AAN)
- (17) Silver color metal (ACU)
- (18) Silver color metal (nut of ABW)
- (19) Silver color metal (ACL)
- (20) Silver color metal (nut of ACL)
- (21) Silver color metal (ACO)
- (22) Silver color metal (AJG)
- (23) Silver color metal (staple of instruction sheet)
- (24) White cord (net)
- (25) Black plastic with coatings (backboard)
- (26) Black plastic (cap of screw)
- (27) White/ transparent plastic label with inaccessible coating (sticker)
- (28) Black plastic (knob)
- (29) Black plastic (base, cap of base)
- (30) Black plastic (wheel)
- (31) Black plastic (sleeve of brace)
- (32) Brown paper board with coatings (box)
- (33) Yellow plastic (cable tie)
- (34) Transparent plastic (film)
- (35) Silver color metal with orange coating (holder of ring of rim)

(B) Tested SVHC Chemicals list:

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
1	Cobalt Dichloride $\Delta$	7646-79-9	2	Diarsenic Pentaoxide $\Delta$	1303-28-2
3	Diarsenic Trioxide $\Delta$	1327-53-3	4	Lead Hydrogen Arsenate $\Delta$	7784-40-9
5	Triethyl Arsenate $\Delta$	15606-95-8	6	Sodium Dichromate $\Delta$	7789-12-0, 10588-01-9
7	Bis (Tributyltin) Oxide (TBTO) $\Delta$	56-35-9	8	Anthracene	120-12-7
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	10	Hexabromocyclododecane (HBCDD) and All Major Diastereoisomers Identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4 and 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)
11	5-Tert-Butyl-2,4,6-Trinitro-m-Xylene (Musk Xylene)	81-15-2	12	Bis (2-Ethylhexyl) Phthalate (DEHP)	117-81-7
13	Dibutyl Phthalate (DBP)	84-74-2	14	Benzyl Butyl Phthalate (BBP)	85-68-7
15	Short Chain Chlorinated Paraffins (C <sub>10-13</sub> )	85535-84-8	16	Lead Chromate $\Delta$	7758-97-6
17	Lead Chromate Molybdate Sulphate Red (C.I. Pigment Red 104) $\Delta$	12656-85-8	18	Lead Sulfochromate Yellow (C.I. Pigment Yellow 34) $\Delta$	1344-37-2
19	Tris (2-Chloroethyl) Phosphate	115-96-8	20	2,4-Dinitrotoluene	121-14-2





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21	Diisobutyl Phthalate (DIBP)	84-69-5	22	Coal Tar Pitch, High Temperature	65996-93-2
23	Anthracene Oil	90640-80-5	24	Anthracene Oil, Anthracene Paste, Distn. Lights	91995-17-4
25	Anthracene Oil, Anthracene Paste, Anthracene Fraction	91995-15-2	26	Anthracene Oil, Anthracene-low	90640-82-7
27	Anthracene Oil, Anthracene Paste	90640-81-6	28	Acrylamide	79-06-1
29	Boric Acid Δ	10043-35-3, 11113-50-1	30	Disodium Tetraborate, Anhydrous Δ	1330-43-4, 12179-04-3, 1303-96-4
31	Tetraboron Disodium Heptaoxide, Hydrate Δ	12267-73-1	32	Sodium Chromate Δ	7775-11-3
33	Potassium Chromate Δ	7789-00-6	34	Ammonium Dichromate Δ	7789-09-5
35	Potassium Dichromate Δ	7778-50-9	36	Trichloroethylene	79-01-6
37	2-Methoxyethanol	109-86-4	38	2-Ethoxyethanol	110-80-5
39	Cobalt Sulphate Δ	10124-43-3	40	Cobalt Dinitrate Δ	10141-05-6
41	Cobalt Carbonate Δ	513-79-1	42	Cobalt Diacetate Δ	71-48-7
43	Chromium Trioxide Δ	1333-82-0	44	Chromic Acid Δ Dichromic Acid Δ Oligomers of Chromic Acid and Dichromic Acid Δ	7738-94-5 13530-68-2 --
45	Strontium ChromateΔ	7789-06-2	46	2-ethoxyethyl acetate (2-EEA)	111-15-9
47	1,2-Benzenedicarboxylic acid, di-C <sub>7-11</sub> -branched and linear alkyl esters (DHNUP)	68515-42-4	48	Hydrazine	7803-57-8 302-01-2
49	1-methyl-2-pyrrolidone	872-50-4	50	1,2,3-trichloropropane	96-18-4
51	1,2-Benzenedicarboxylic acid, di-C <sub>6-8</sub> -branched alkyl esters, C <sub>7</sub> -rich (DIHP)	71888-89-6	52	Lead dipicrateΔ	6477-64-1
53	Lead styphnateΔ	15245-44-0	54	Lead azide; Lead diazideΔ	13424-46-9
55	Phenolphthalein	77-09-8	56	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4
57	N,N-dimethylacetamide (DMAC)	127-19-5	58	Trilead diarsenateΔ	3687-31-8
59	Calcium arsenateΔ	7778-44-1	60	Arsenic acidΔ	7778-39-4
61	Bis(2-methoxyethyl) ether	111-96-6	62	1,2-Dichloroethane	107-06-2
63	4-(1,1,3,3-tetramethylbutyl)ph	140-66-9	64	2-Methoxyaniline; o-Anisidine	90-04-0





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### Tests Conducted

	enol, (4-tert-Octylphenol)				
65	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	66	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4
67	Pentazinc chromate octahydroxide $\Delta$	49663-84-5	68	Potassium hydroxyoctaoxodizincate dichromate $\Delta$	11103-86-9
69	Dichromium tris(chromate) $\Delta$	24613-89-6	70	Aluminosilicate Refractory Ceramic Fibres $\Delta$	(Index No. 650-017-00-8)
71	Zirconia Aluminosilicate Refractory Ceramic Fibres $\Delta$	(Index No. 650-017-00-8)	72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	74	Diboron trioxide $\Delta$	1303-86-2
75	Formamide	75-12-7	76	Lead(II) bis(methanesulfonate) $\Delta$	17570-76-2
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	2451-62-9	78	$\beta$ -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] +	548-62-9	82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] +	2580-56-5
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4-(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] +	6786-83-0	84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq$ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] +	561-41-1



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85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	86	Pentacosaflluorotridecanoic acid	72629-94-8
87	Tricosaflluorododecanoic acid	307-55-1	88	Henicosaflluoroundecanoic acid	2058-94-8
89	Heptacosaflluorotetradecanoic acid	376-06-7	90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3
91	Cyclohexane-1,2-dicarboxylic anhydride [1]  cis-cyclohexane-1,2-dicarboxylic anhydride [2]  trans-cyclohexane-1,2-dicarboxylic anhydride [3]  [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry].	85-42-7 13149-00-3 14166-21-3	92	Hexahydromethylphthalic anhydride [1],  Hexahydro-4-methylphthalic anhydride [2],  Hexahydro-1-methylphthalic anhydride [3],  Hexahydro-3-methylphthalic anhydride [4]  [The individual isomers [2], [3] and [4] (including their cis- and trans- stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry]	25550-51-0 19438-60-9 48122-14-1 57110-29-9
93	4-Nonylphenol, branched and linear  [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--	94	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated  [covering well-defined substances and UVCB substances, polymers and homologues]	--
95	Methoxyacetic acid	625-45-6	96	N,N-dimethylformamide	68-12-2
97	Dibutyltin dichloride (DBTC) Δ	683-18-1	98	Lead monoxide (Lead oxide) Δ	1317-36-8
99	Orange lead (Lead tetroxide) Δ	1314-41-6	100	Lead bis(tetrafluoroborate) Δ	13814-96-5
101	Trilead bis(carbonate)dihyd	1319-46-6	102	Lead titanium trioxideΔ	12060-00-3



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	oxide Δ				
103	Lead titanium zirconium oxideΔ	12626-81-2	104	Silicic acid, lead salt Δ	11120-22-2
105	Silicic acid (H <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> ), barium salt (1:1), lead-dopedΔ  [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]	68784-75-8	106	1-bromopropane (n-propyl bromide)	106-94-5
107	Methyloxirane (Propylene oxide)	75-56-9	108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
109	Diisopentylphthalate (DIPP)	605-50-5	110	N-pentyl-isopentylphthalate	776297-69-9
111	1,2-diethoxyethane	629-14-1	112	Acetic acid, lead salt, basicΔ	51404-69-4
113	Lead oxide sulfateΔ	12036-76-9	114	[Phthalato(2-)]dioxotrileadΔ	69011-06-9
115	Dioxobis(stearato)tri-leadΔ	12578-12-0	116	Fatty acids, C16-18, lead saltsΔ	91031-62-8
117	Lead cyanamidateΔ	20837-86-9	118	Lead dinitrateΔ	10099-74-8
119	Pentalead tetraoxide sulphateΔ	12065-90-6	120	Pyrochlore, antimony lead yellowΔ	8012-00-8
121	Sulfurous acid, lead salt, dibasicΔ	62229-08-7	122	TetraethylleadΔ	78-00-2
123	Tetralead trioxide sulphateΔ	12202-17-4	124	Trilead dioxide phosphonateΔ	12141-20-7
125	Furan	110-00-9	126	Diethyl sulphate	64-67-5
127	Dimethyl sulphate	77-78-1	128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	130	4,4'-methylenedi-o-toluidine	838-88-0
131	4,4'-oxydianiline and its salts	101-80-4	132	4-aminoazobenzene	60-09-3
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	134	6-methoxy-m-toluidine (p-cresidine)	120-71-8



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135	Biphenyl-4-ylamine	92-67-1	136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine)]	97-56-3
137	o-toluidine	95-53-4	138	N-methylacetamide	79-16-3
139	Cadmium $\Delta$	7440-43-9	140	Cadmium oxide $\Delta$	1306-19-0
141	Dipentyl phthalate (DPP)	131-18-0	142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	--
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1
145	Cadmium sulphide $\Delta$	1306-23-6	146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0
147	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	148	Dihexyl phthalate (DnHP)	84-75-3
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	150	Lead di(acetate) $\Delta$	301-04-2
151	Trixylyl phosphate	25155-23-1	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (Diisohexyl phthalate(DIHP))	68515-50-4
153	Cadmium chloride $\Delta$	10108-64-2	154	Sodium perborate; perboric acid, sodium salt $\Delta$	--
155	Sodium peroxometaborate $\Delta$	7632-04-4	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1
159	Cadmium fluoride $\Delta$	7790-79-6	160	Cadmium sulphate $\Delta$	10124-36-4; 31119-53-6



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161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	15571-58-1; 27107-89-7	162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5 68648-93-1
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	117933-89-8	164	Nitrobenzene	98-95-3
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3
167	1,3-propanesultone	1120-71-4	168	Perfluorononan-1-ic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4
169	Benzo[def]chrysen e (Benzo[a]pyrene)	50-32-8	170	4,4'-isopropylidenediphenol (bisphenol A; BPA)	80-05-7
171	Nonadecafluorodec anic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	172	4-heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	--
173	p-(1,1 dimethylpropyl)phenol	80-46-6	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	355-46-4



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175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	13560-89-9 135821-74-8 135821-03-3	176	Benz[a]anthracene	56-55-3
177	Cadmium nitrate $\Delta$	10325-94-7	178	Cadmium carbonate $\Delta$	513-78-0
179	Cadmium hydroxide $\Delta$	21041-95-2	180	Chrysene	218-01-9
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear]	--	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7
183	Dicyclohexyl phthalate (DCHP)	84-61-7	184	Octamethylcyclotetrasiloxane (D4)	556-67-2
185	Decamethylcyclopentasiloxane (D5)	541-02-6	186	Dodecamethylcyclohexasiloxane (D6)	540-97-6
187	Lead	7439-92-1	188	Disodium octaborate $\Delta$	12008-41-2
189	Benzo[ghi]perylene	191-24-2	190	Terphenyl hydrogenate	61788-32-7
191	Ethylenediamine (EDA)	107-15-3	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8
193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	194	Benzo[k]fluoranthene	207-08-9
195	Fluoranthene	206-44-0	196	Phenanthrene	85-01-8
197	Pyrene	129-00-0	198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	--
199	4-tert-butylphenol (PTBP)	98-54-4	200	2-methoxyethyl acetate	110-49-6
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and	--	202	Diisohexyl phthalate	71850-09-4





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	linear (4-NP) +				
203	2-benzyl-2-dimethylamino-4'-morpholinobutyrop henone	119313-12-1	204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5
205	Perfluorobutane sulfonic acid (PFBS) and its salts	--	206	1-vinylimidazole	1072-63-5
207	2-methylimidazole	693-98-1	208	Dibutylbis(pentane-2,4-dionato-O,O')tin $\Delta$	22673-19-4
209	Butyl 4-hydroxybenzoate (Butylparaben)	94-26-8			

Tested proposed SVHC Chemicals list in the Public Consultations on 1 September 2020:

	Chemical Substance	CAS No.		Chemical Substance	CAS No.
1	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	2	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety $\Delta$	--

$\Delta$  = Determination was based on elemental analysis. The content was calculated based on assumption of worst-case.

+ = The content was calculated based on assumption of worst-case.

**(C) SVHC Requirements**

Following substances may be identified as substance of very high concern (SVHC):

Substances classified as:

Carcinogenicity category 1A or 1B;

Germ cell mutagenicity category 1A or 1B;

Reproductive toxicity category 1A or 1B, adverse effects on sexual function and fertility or on development;

Persistent, bioaccumulative and toxic (PBT)

Very persistent and very bioaccumulative (vPvB)

Other substances for which there is scientific evidence of probable serious effects to human health or the environment which give rise to an equivalent level of concern, such as endocrine disrupters

**REACH Requirement:**

As per Article 7 of Regulation (EC) No 1907/2006 (REACH) as amended, if a substance of very high concern (SVHC) on the Candidate List for Authorisation is present in articles above a concentration of 0.1% weight by weight (w/w) and the substance is present in those articles in quantities totalling over 1 tonne per producer or per importer per year, then the producer or importer shall notify the European Chemicals Agency (ECHA). The notifications have to be submitted no later than 6 months after the inclusion in the Candidate List. The information to be notified shall include the following:

Identity and contact details of the producer or importer;

Registration number(s), if available;

Identity of the substance;

Classification of the substance(s);





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Brief description of the use(s) of the substance(s) in the article and of the uses of the article(s);  
Tonnage range of the substance(s).

As per Article 33(1) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with information of safe use of the article. An article meets the requirement of Article 33(1) by default when no SVHC exceeds 0.1% weight by weight (w/w).

As per Article 33(2) of Regulation (EC) No 1907/2006 (REACH) as amended, any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) shall provide the consumer on request with information of safe use of the article, within 45 days of receipt of the request.

As per Court of Justice of the European Union Judgment in Case C-106/14, Press Release No 100/15 dated 10 September 2015, each of the articles incorporated as a component of a complex product is covered by the relevant duties to notify and provide information when they contain a substance of very high concern in a concentration above 0.1% of their mass.

**Waste Framework Directive (WFD) Requirement:**

As per Article 9(1)(i) of Directive 2008/98/EC on waste (WFD, Waste Framework Directive) as amended, Member States shall take measures to ensure that any supplier of an article as defined in point 33 of Article 3 of Regulation (EC) No 1907/2006 (REACH) provides the information pursuant to Article 33(1) of Regulation (EC) No 1907/2006 (REACH) to the European Chemicals Agency (ECHA) as from 5 January 2021. Any supplier of an article containing a substance of very high concern (SVHC) on the Candidate List for Authorisation in a concentration above 0.1% weight by weight (w/w) on the EU market is required to submit a SCIP Notification on that article to ECHA, as from 5 January 2021.



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4 19 Toxic Element Migration Test

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, Ion Chromatography with UV-VIS and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Test Item	Result					Units	D.L.	Limit
	1	2	3	4	5			
Aluminium (Al)	ND	ND	414	906	ND	mg/kg	300	70000/28130▲
Antimony (Sb)	ND	ND	ND	ND	ND	mg/kg	10	560
Arsenic (As)	ND	ND	ND	ND	ND	mg/kg	10	47
Barium (Ba)	100	ND	ND	ND	ND	mg/kg	10	18750
Boron (B)	ND	ND	ND	ND	ND	mg/kg	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	mg/kg	5	17
Chromium (III) (Cr III)#	ND	ND	ND	ND	ND	mg/kg	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	mg/kg	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	mg/kg	10	130
Copper (Cu)	ND	ND	ND	ND	ND	mg/kg	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	mg/kg	10	23
Manganese (Mn)	11	ND	ND	ND	ND	mg/kg	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	mg/kg	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	mg/kg	10	930
Selenium (Se)	ND	ND	ND	ND	ND	mg/kg	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	mg/kg	100	56000
Tin (Sn)	4.9	ND	ND	ND	ND	mg/kg	2.5	180000
Organic tin++	ND△	ND	ND	ND	ND	mg/kg	5	12
Zinc (Zn)	ND	ND	ND	196	ND	mg/kg	100	46000



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Test Item	Result					Units	D.L.	Limit
	6	7	8	9	10			
Aluminium (Al)	ND	ND	ND	ND	ND	mg/kg	300	70000/28130▲
Antimony (Sb)	ND	ND	ND	ND	ND	mg/kg	10	560
Arsenic (As)	ND	ND	ND	ND	ND	mg/kg	10	47
Barium (Ba)	ND	ND	ND	ND	ND	mg/kg	10	18750
Boron (B)	ND	ND	ND	ND	ND	mg/kg	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	mg/kg	5	17
Chromium (III) (Cr III)#	ND	ND	ND	ND	ND	mg/kg	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	mg/kg	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	mg/kg	10	130
Copper (Cu)	ND	ND	ND	ND	ND	mg/kg	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	mg/kg	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	mg/kg	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	mg/kg	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	mg/kg	10	930
Selenium (Se)	ND	ND	ND	ND	ND	mg/kg	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	mg/kg	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	mg/kg	2.5	180000
Organic tin++	ND	ND	ND	ND	ND	mg/kg	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	mg/kg	100	46000
Test Item	Result					Units	D.L.	Limit
	11	12	-	-	-			
Aluminium (Al)	ND	ND	-	-	-	mg/kg	300	70000/28130▲
Antimony (Sb)	ND	ND	-	-	-	mg/kg	10	560
Arsenic (As)	ND	ND	-	-	-	mg/kg	10	47
Barium (Ba)	ND	ND	-	-	-	mg/kg	10	18750
Boron (B)	ND	ND	-	-	-	mg/kg	50	15000
Cadmium (Cd)	ND	ND	-	-	-	mg/kg	5	17
Chromium (III) (Cr III)#	ND	ND	-	-	-	mg/kg	10	460
Chromium (VI) (Cr VI)	ND	ND	-	-	-	mg/kg	0.025	0.053
Cobalt (Co)	ND	ND	-	-	-	mg/kg	10	130
Copper (Cu)	ND	ND	-	-	-	mg/kg	10	7700
Lead (Pb)	ND	ND	-	-	-	mg/kg	10	23
Manganese (Mn)	ND	ND	-	-	-	mg/kg	10	15000
Mercury (Hg)	ND	ND	-	-	-	mg/kg	10	94
Nickel (Ni)	ND	ND	-	-	-	mg/kg	10	930
Selenium (Se)	ND	ND	-	-	-	mg/kg	10	460
Strontium (Sr)	ND	ND	-	-	-	mg/kg	100	56000
Tin (Sn)	ND	ND	-	-	-	mg/kg	2.5	180000
Organic tin++	ND	ND	-	-	-	mg/kg	5	12
Zinc (Zn)	ND	ND	-	-	-	mg/kg	100	46000



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Remarks:

D.L. = Detection Limit

ND = Not detected

++ = Unless the test results were marked with "Δ", Organic tin contents were not directly determined and were derived from migration results of total tin.

- Organic tin test result was expressed as tributyl tin.

▲ = The new Aluminium migration limit were quoted from Directive (EU) 2019/1922 amending Directive 2009/48/EC applicable from 20 May 2021.

# = The reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2019.

Additional acid was required to lower the pH for component (1)

Tested component(s): See component list in the last section of this report

Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).



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5 Phthalate Content

With reference to ISO 8124-6:2018, and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

**For 7 phthalates**

Test Item	CAS No.	Result					Units	D.L.	Limit
		1+2	3+4	6+7+8	9+10	11+12			
Di-butyl phthalate (DBP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di-butyl phthalate (DBP) Wmax	84-74-2	ND	ND	ND	ND	ND	%	0.005	-
Di(2-ethyl hexyl) phthalate (DEHP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di(2-ethyl hexyl) phthalate (DEHP) Wmax	117-81-7	ND	ND	ND	ND	ND	%	0.005	-
Benzyl butyl phthalate (BBP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Benzyl butyl phthalate (BBP) Wmax	85-68-7	ND	ND	ND	ND	ND	%	0.005	-
Di-isobutyl phthalate (DIBP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di-isobutyl phthalate (DIBP) Wmax	84-69-5	ND	ND	ND	ND	ND	%	0.005	-
Sum of DBP, DEHP, BBP and DIBP Wavg	-	ND	ND	ND	ND	ND	%	0.005	0.1
Sum of DBP, DEHP, BBP and DIBP Wmax	-	ND	ND	ND	ND	ND	%	0.005	0.1
Di-iso-nonyl phthalate (DINP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di-iso-nonyl phthalate (DINP) Wmax	28553-12-0	ND	ND	ND	ND	ND	%	0.005	-
Di-n-octyl phthalate (DNOP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di-n-octyl phthalate (DNOP) Wmax	117-84-0	ND	ND	ND	ND	ND	%	0.005	-
Di-iso-decyl phthalate (DIDP) Wavg	-	ND	ND	ND	ND	ND	%	0.005	-
Di-iso-decyl phthalate (DIDP) Wmax	26761-40-0	ND	ND	ND	ND	ND	%	0.005	-
Sum of DINP, DNOP and DIDP Wavg	-	ND	ND	ND	ND	ND	%	0.005	0.1
Sum of DINP, DNOP and DIDP Wmax	-	ND	ND	ND	ND	ND	%	0.005	0.1



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#### Remarks:

D.L. = Detection Limit

ND = Not detected

$W_{avg}$  = Average content of phthalate in composite samples

$W_{max}$  = Maximum content of phthalate in individual sample

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) 2018/2005, Annex XVII Entry 51 & 52 on Phthalate Content.

Tested component(s): See component list in the last section of this report.

### Component List

No.	Test Component Description(s)
(1)	Black coating on metal (frame)
(2)	Orange coating on metal (rim)
(3)	Red with white base coating on plastic (backboard)
(4)	White coating on plastic (backboard)
(5)	White cord (net)
(6)	Black plastic (backboard)
(7)	Black plastic (cap of screw)
(8)	White/ transparent plastic label with inaccessible coating (sticker)
(9)	Black plastic (knob)
(10)	Black plastic (base, cap of base)
(11)	Black plastic (wheel)
(12)	Black plastic (sleeve of brace)

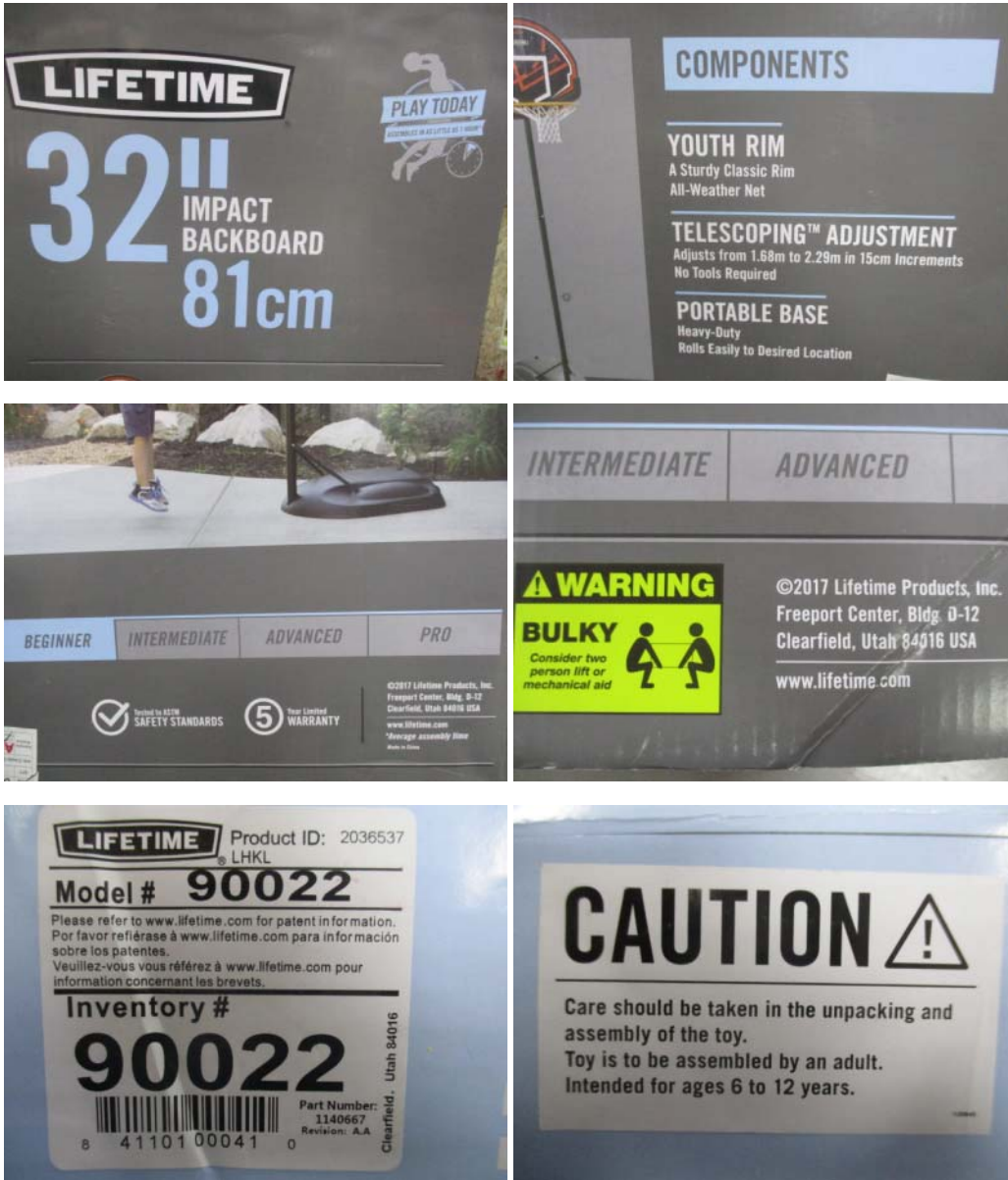




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End of report

*The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band w = U) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.*

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