TEST REPORT

LAB LOCATION:	**VIETNAM**	**REPORT NUMBER:**	**76121-100389**
DATE IN:	**Oct. 29, 2021**	**DATE OUT:**	**Nov. 09, 2021**

Applicant:	Lifetime Products,Inc.		
Contact:	Fiona		
Address:	P.O. Box 160010 Freeport Center Bldg. D-12 Clearfield, UT 84016-0010 USA		
Tel:	886-2-28935556 (Ext 207)	**Fax:**	-
E-mail:	amy@eversunny.com.tw, fiona@eversunny.com.tw		
Copy To:	-		

OVERALL RATING

PASS	**X**
FAIL	**-**
DATA	**-**

NOTE: RATING IS BASED ON TESTING LAB RESULTS. FINAL ACCEPTANCE OR REJECTION IS PER CLIENT ONLY.

Sample Information			
Sample Description	Climbing Dome, Earthtone		
Item/ Style Number	90136/90612/90943		
Color	Brown and green		
Purchase Order Number	-	**No. of Samples Submitted**	1
Country of Origin	Taiwan	**Country of Destination**	EU
Vendor/ Agent	-	**Manufacturer**	Taiwan Shin Yeh Ent Co., Ltd

Testing Status			
☐ **Pre-production**	☐ **Production**	☐ **Retest**	☐ **Previous Report No**
Other/ Comments: -			

Sample Photos





76121-100389

For and on behalf of
Modern Testing Services (Vietnam) Ltd.

HARRY VU
HL. DEPARTMENT SUPERVISOR

EXECUTIVE SUMMARY:

TESTING RESULT SUMMARY				
Test Property	**PASS**	**FAIL**	**DATA**	**COMMENTS**
Migration of Certain Elements – EN 71-3	X	-	-	-
Heavy Metals Content in Packaging and Packaging Waste – European Directive 94/62/EC and 2004/12/EC	X			
Total Cadmium Content – Entry 23 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Total Lead content – Entry 63 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Phenylmercury Compounds – Entry 62 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Benzene Content – Entry 5 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Phthalates Content – Entry 51 & 52 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Short Chain Chlorinated Paraffins (Alkanes C10-C13, Chloro) (SCCPs) Content – Regulation (EU) No 2019/1021 On Persistent Organic Pollutants	X			
Flame Retardant Content – Entry 4, 7, 8 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Flame Retardant Content – Entry 45 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Polycyclic Aromatic Hydrocarbons (PAHs) Content – Entry 50 of Annex XVII of European Regulation (EC) No 1907/2006	X			
Organostannic Compounds – Entry 20 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Nonylphenol Ethoxylates and Nonylphenol Content – Entry 46 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
Dimethyl Fumarate Content – Entry 61 of Annex XVII of European Regulation (EC) No 1907/2006	X	-	-	-
219 Substances of Very High Concern (SVHC)	X	-	-	-
BS EN 71-1: 2014 + A1:2018 Safety of Toys	X	-	-	-

TESTING RESULT SUMMARY				
Test Property	**PASS**	**FAIL**	**DATA**	**COMMENTS**
BS EN 71-2:2020 SAFETY OF TOYS (FLAMMABILITY)	X	-	-	-
BS EN 71-8: 2018 Safety of Toys	X	-	-	-

COMPONENT BREAKDOWN LIST:

Item No.	Item Description	Accessibility	Material Type
A	**Climbing Dome Earthtone**	-	-
A1	Brown coating on metal (Metal pole - Geodome) (Same item B1)	A	Coating
A2	Green coating on metal (Metal pole - Geodome) (Same item B2)	A	Coating
A3	Silvery metal (Metal pole) (Same item B3)	A	Metal
A4	Black plastic (Climbing grips) (Same item B4)	A	Plastic
A5	Silvery metal (Long - Bolt) (Same item B5)	A	Metal
A6	Silvery metal (Small - Bolt) (Same item B6)	A	Metal
A7	Silvery metal (Hex nut) (Same item B7)	IN	Metal
A8	Silvery metal (Flat washer) (Same item B8)	A	Metal
A9	White plastic with black printing (Round label) (Same item B9)	A	Plastic + Printing + Adhesive
A10	White plastic with black/ orange printing (Warning label) (Same item B10)	A	Plastic + Printing + Adhesive
A11	White plastic with black/ green printing (Tracking label) (Same item B11)	A	Plastic + Printing + Adhesive
B	**Climbing Dome Earthtone**	-	-
B1	Brown coating on metal (Metal pole - Geodome)	A	Coating
B2	Green coating on metal (Metal pole - Geodome)	A	Coating
B3	Silvery metal (Metal pole)	A	Metal
B4	Black plastic (Climbing grips)	A	Plastic
B5	Silvery metal (Long - Bolt)	A	Metal
B6	Silvery metal (Small - Bolt)	A	Metal
B7	Silvery metal (Hex nut)	IN	Metal
B8	Silvery metal (Flat washer)	A	Metal
B9	White plastic with black printing (Round label)	A	Plastic + Printing + Adhesive
B10	White plastic with black/ orange printing (Warning label)	A	Plastic + Printing + Adhesive
B11	White plastic with black/ green printing (Tracking label)	A	Plastic + Printing + Adhesive
B12	White fabric (Tent)	A	Textile
B13	Brown fabric (Tent)	A	Textile

Item No.	Item Description	Accessibility	Material Type
B14	Black fabric (Tent)	A	Textile
B15	Silvery metal with black plating (Eyelet - Tent loop)	A	Metal
B16	Silvery metal with black plating (Clip - Tent loop)	A	Metal
B17	Black fabric with black plastic inside (Elastic cord)	A	Textile + Plastic
B18	Black plastic (Plastic hook - Elastic cord	A	Plastic
B19	Black/ white coating with fabric (Logo)	A	Textile + Coating
B20	White fabric with white/ black/ orange coating with fabric (Warning label)	A	Textile + Coating
B21	White fabric with black coating with fabric (Material label)	A	Textile + Coating
C	**Packaging materials**	-	-
C1	Doublewall carton with green/ black printing (Master carton)	A	Paper + Printing
C2	Doublewall carton (Insert carton)	A	Paper
C3	Singlewall carton (Insert carton)	A	Paper
C4	White paper with black printing and glue backing (Label - Master carton)	A	Paper + Printing
C5	White paper with black printing and glue backing (Name label)	A	Paper + Printing + Adhesive
C6	Transparent plastic with black printing (Poly bag)	A	Plastic + Printing
C7	Transparent plastic (Plastic wrap)	A	Plastic
C8	Transparent plastic with glue backing (Adhesive tape)	A	Plastic + Adhesive

Note: A = Accessible

EXHIBIT BREAKDOWN:



TEST RESULT(S):

1. Migration of Certain Elements – EN 71-3:2009 + A1:2021

Category III: Scraped-off materials

Extractable Elements	Result (mg/kg)						Migration Limit (mg/kg)
Test Item	B1	B2	B4	B5	B6	B8	
Mass of Trace Amount (mg)	NA	NA	NA	NA	NA	NA	
Aluminum (Al)	<10	12	<10	<10	<10	<10	28130
Antimony (Sb)	<10	<10	<10	<10	<10	<10	560
Arsenic (As)	<10	<10	<10	<10	<10	<10	47
Barium (Ba)	15	22	<10	<10	<10	<10	18750
Boron (B)	<100	<100	<100	<100	<100	<100	15000
Cadmium (Cd)	<5	<5	<5	<5	<5	<5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	<10	<10	460
Chromium (VI) (Cr VI)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.053
Cobalt (Co)	<10	<10	<10	<10	<10	<10	130
Copper (Cu)	<10	<10	<10	<10	<10	<10	7700
Lead (Pb)	<10	<10	<10	<10	<10	<10	23
Manganese (Mn)	<10	<10	<10	29	37	<10	15000
Mercury (Hg)	<10	<10	<10	<10	<10	<10	94
Nickel (Ni)	<10	<10	<10	<10	<10	<10	930
Selenium (Se)	<10	<10	<10	<10	<10	<10	460
Strontium (Sr)	<10	10	<10	<10	<10	<10	56000
Tin (Sn)	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	180000
Organic Tin	<3	<3	<3	<3	<3	<3	12
Zinc (Zn)	99	453	11	2916	3054	3707	46000
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	-

Extractable Elements	Result (mg/kg)						Migration Limit (mg/kg)
Test Item	B9	B10	B11	B12	B13	B14	
Mass of Trace Amount (mg)	50.1	NA	NA	NA	NA	NA	
Aluminum (Al)	16	<10	<10	<10	<10	<10	28130
Antimony (Sb)	<10	<10	<10	<10	<10	<10	560
Arsenic (As)	<10	<10	<10	<10	<10	<10	47
Barium (Ba)	<10	<10	<10	<10	<10	<10	18750
Boron (B)	<100	<100	<100	<100	<100	<100	15000
Cadmium (Cd)	<5	<5	<5	<5	<5	<5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	<10	<10	460
Chromium (VI) (Cr VI)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.053
Cobalt (Co)	<10	<10	<10	<10	<10	<10	130
Copper (Cu)	<10	<10	<10	<10	<10	<10	7700
Lead (Pb)	<10	<10	<10	<10	<10	<10	23
Manganese (Mn)	<10	<10	<10	<10	<10	<10	15000
Mercury (Hg)	<10	<10	<10	<10	<10	<10	94
Nickel (Ni)	<10	<10	<10	<10	<10	<10	930
Selenium (Se)	<10	<10	<10	<10	<10	<10	460
Strontium (Sr)	<10	<10	<10	<10	<10	<10	56000
Tin (Sn)	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	180000
Organic Tin	<3	<3	<3	<3	<3	<3	12
Zinc (Zn)	27	<10	<10	<10	<10	<10	46000
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	-

Extractable Elements	Result (mg/kg)							Migration Limit (mg/kg)
Test Item	B15	B16	B17	B18	B19	B20	B21	
Mass of Trace Amount (mg)	NA	NA	NA	NA	NA	NA	NA	
Aluminum (Al)	<10	<10	<10	<10	<10	74	50	28130
Antimony (Sb)	<10	<10	<10	<10	<10	<10	<10	560
Arsenic (As)	<10	<10	<10	<10	<10	<10	<10	47
Barium (Ba)	<10	<10	<10	<10	<10	<10	<10	18750
Boron (B)	<100	<100	<100	<100	<100	<100	<100	15000
Cadmium (Cd)	<5	<5	<5	<5	<5	<5	<5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	<10	<10	<10	460
Chromium (VI) (Cr VI)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.053
Cobalt (Co)	<10	<10	<10	<10	<10	<10	<10	130
Copper (Cu)	110	<10	<10	<10	<10	<10	<10	7700
Lead (Pb)	<10	<10	<10	<10	<10	<10	<10	23
Manganese (Mn)	<10	<10	<10	<10	<10	<10	<10	15000
Mercury (Hg)	<10	<10	<10	<10	<10	<10	<10	94
Nickel (Ni)	<10	<10	<10	<10	<10	<10	<10	930
Selenium (Se)	<10	<10	<10	<10	<10	<10	<10	460
Strontium (Sr)	<10	<10	<10	<10	<10	25	17	56000
Tin (Sn)	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	180000
Organic Tin	<3	<3	<3	<3	<3	<3	<3	12
Zinc (Zn)	105	<10	<10	<10	<10	<10	<10	46000
Conclusion	PASS	PASS	PASS	PASS	PASS	PASS	PASS	-

Method: With reference to EN 71-3:2019. The heavy metals content was determined by Inductively Coupled Plasma Mass Spectrophotometer (ICP-MS).
For samples of migrated chromium content lower than migration limit of Chromium (VI), no speciation test for Chromium (III) and chromium (VI) were conducted. The results were derived from that of total chromium.
For samples of migrated tin content calculated as tributyl tin lower than migration limit of organic tin, no organic tin test was conducted. The results were derived from that of Tin.

Remark: 1. The material categories of tested item(s) are classified as below per clause 4.1 of this standard.

Category I: Dry, brittle, power like or pliable materials
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)
Pliable modelling materials, including modelling clays and plaster
Category II: Liquid or sticky materials
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)
Glue sticks
Category III: Scraped-off materials
Coatings of paints, varnishes, lacquers, printing inks, polymers, foams and similar coatings
Polymeric and similar materials, including laminates, whether textile reinforced or not, but excluding other textiles
Paper and paper board
Textiles, whether natural or synthetic
Glass, ceramic, metallic materials
Wood, fibre board, hard board, bone, leather and other solid materials

2. Result(s) of organic tin reported was / were the sum of Methyltin (MeT), Butyltin (BuT), Dibutyltin (DBT), Tributyltin (TBT), Tetrabutyltin (TeBT), Monooctyltin (MOT), Di-n-octyltin (DOT), Di-n-propyltin (DProT), Diphenyltin (DPhT), Triphenyltin (TPhT) and Dimethyltin (DMT) expressed as TBT.
3. The accessibility of the submitted sample is verified according to EN71-1 before and after abuse.

Note: NA = Not Applicable
mg/kg = milligram per kilogram
mg = milligram

2. Heavy Metals Content in Packaging and Packaging Waste – European Directive 94/62/EC and 2004/12/EC

Test Item	Result – Total Heavy Metals (mg/kg)					Conclusion
	Pb	Cd	Cr (VI)	Hg	Total	
C1+C2+C3	ND	ND	ND	ND	ND	PASS
C4+C5	ND	ND	ND	ND	ND	PASS
C6+C7+C8	ND	ND	ND	ND	ND	PASS
Limit	-	-	-	-	100	-

Pb = Lead, Cd = Cadmium, Cr (VI) = Chromium (VI), Hg = Mercury

Method: 1. Pb, Cd & Hg: Sample was digested with nitric acid and then analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer.
2. Cr(VI): Sample was digested with alkaline mixtures and then analyzed by UV-VIS spectrophotometer.

Note: ND = Not Detected (Lab reporting limit: 10 mg/kg)
mg/kg = milligram per kilogram

3. Total Cadmium Content – Entry 23 of Annex XVII of European Regulation (EC) No 1907/2006, No 552/2009, No 494/2011, No 835/2012 and No 2016/217 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Former Known as Directive 91/338/EEC)

Test Item	Classification	Total Cadmium (Cd) (mg/kg)		Conclusion
		Result	Limit	
B1+B2	Paint on painted articles	ND	1000	PASS
B4+B18	Plastics	ND	100	PASS

Method: Plastic - EN 1122:2001, Method B
Paint / Metal - Sample was digested with acid
The Cadmium content was analyzed Atomic Absorption Spectrophotometer / Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 10 mg/kg)
mg/kg = milligram per kilogram

4. Total Lead Content – Entry 63 of Annex XVII of European Regulation (EC) No 1907/2006, EU 836/2012 and EU 2015/628 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Test Item	Classification	Total Lead (Pb) (mg/kg)		Conclusion
		Result	Limit	
B1+B2	Paint or similar surface coating	ND	500	PASS
B4+B18	Accessible substrate	ND	500	PASS
B5+B6	Accessible substrate	ND	500	PASS
B8+B15+B16	Accessible substrate	ND	500	PASS

Method: The sample was digested with acid mixture and analyzed by Atomic Absorption Spectrophotometer / Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 10 mg/kg)
mg/kg = milligram per kilogram

5. Phenylmercury Compounds – Entry 62 of Annex XVII of European Regulation (EC) No 1907/2006 and No 552/2009 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Test Item	Total Mercury (Hg) (%)		Conclusion
	Result	Limit	
B1+B2	ND	0.01	PASS
B4+B18	ND	0.01	PASS
B12+B13+B14	ND	0.01	PASS
B17	ND	0.01	PASS
B19+B20	ND	0.01	PASS

Method: Sample was digested by acid and analyzed Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 0.001 %)
% = percentage

Remark: The result is report as total mercury content.

6. Benzene Content – Entry 5 of Annex XVII of European Regulation (EC) No 1907/2006, No 552/2009 and No. 276/2010 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Test Item	Benzene [CAS No. 71-43-2] (mg/kg)		Conclusion
	Result	Limit	
B1	ND	5	PASS
B2	ND	5	PASS
B4	ND	5	PASS
B12	ND	5	PASS
B13	ND	5	PASS
B14	ND	5	PASS
B17	ND	5	PASS
B18	ND	5	PASS
B19	ND	5	PASS
B20	ND	5	PASS

Method: Sample was analyzed by Headspace Gas Chromatograph Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 1 mg/kg)
mg/kg = milligram per kilogram

7. Phthalates Content – Entry 51 & 52 of Annex XVII of European Regulation (EC) No 1907/2006 and No 552/2009 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Former Known as Directive 2005/84/EC)

Test Item	Result (%) (Remark)									Conclusion
	Part A					Part B				
	DBP	BBP	DEHP	DIBP	Total	DNOP	DIDP	DINP	Total	
B1+B2	ND	ND	ND	ND	ND	ND	ND	ND	ND	PASS
B4+B18	ND	ND	ND	ND	ND	ND	ND	ND	ND	PASS
Limit	-	-	-	-	0.1	-	-	-	0.1	-

List of Phthalates:

Chemical Name	CAS No.	Chemical Name	CAS No.
Dibutyl phthalate (DBP)	84-74-2	Di-n-octyl phthalate (DNOP)	117-84-0
Butyl benzyl phthalate (BBP)	85-68-7	Di-iso-decyl phthalate (DIDP)	26761-40-0/ 68515-49-1
Di-2-ethylhexyl phthalate (DEHP)	117-81-7	Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0
Di-iso-butyl phthalate (DIBP)	84-69-5	-	-

Method: 1) For plasticized or softened material on textile:
With reference to ISO 14389:2014.
2) For other polymeric material:
With reference to EN 14372:2004 Section 6.3.2.

Remark: Toys and childcare articles shall meet the requirement of Part A. Toys and childcare articles, which can be placed in mouth by the children, shall meet the requirements of both Part A and B.

Note: ND = Not Detected (Lab reporting limit: 0.005%)
% = percentage

8. Short Chain Chlorinated Paraffins (Alkanes C10-C13, Chloro) (SCCPs) Content – Regulation (EU) No 2019/1021 On Persistent Organic Pollutants

Test Item	SCCPs (C10-C13) (mg/kg)		Conclusion
	Result	Limit	
B1+B2	ND	1500	PASS
B4+B18	ND	1500	PASS
B12+B13+B14	ND	1500	PASS
B17	ND	1500	PASS
B19+B20	ND	1500	PASS

Method: With Reference to ISO 18219

Note: ND = Not Detected (Lab reporting limit: 30 mg/kg)
% = percentage

9. Flame Retardants Content – Entry 4, 7, 8 of Annex XVII of European Regulation (EC) No 1907/2006, and No 552/2009 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Former Known as Directive 79/663/EEC, 83/264/EEC and 2003/11/EC)

Test Item	Result (%)			Conclusion
	TRIS	TEPA	PBBs	
B12	ND	ND	ND	PASS
B13	ND	ND	ND	PASS
B14	ND	ND	ND	PASS
B17	NA	NA	NA	PASS
B19	ND	ND	ND	PASS
B20	ND	ND	ND	PASS
Limit	Usage Banned	Usage Banned	Usage Banned	-

List of Flame Retardants:

Chemical Name	CAS No.	Chemical Name	CAS No.
Tris-(2,3-dibrompropyl) phosphate (TRIS)	126-72-7	Tris-azirdinyl phosphinoxide (TEPA)	545-55-1
Polybrominated Biphenyls (PBBs)	59536-65-1	-	-

Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer / Liquid Chromatograph Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 0.001%)
% = percentage

10. Flame Retardant Content – Entry 45 of Annex XVII of European Regulation (EC) No 1907/2006, No 552/2009 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Former Known as Directive 79/663/EEC, 83/264/EEC and 2003/11/EC)

Test Item	Octabromodiphenyl ether (OctaBDE) [CAS No. 32536-52-0] (%)		Conclusion
	Result	Limit	
B4+B18	ND	0.1	PASS
B12+B13+B14	ND	0.1	PASS
B17	ND	0.1	PASS
B19+B20	ND	0.1	PASS

Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer / Liquid Chromatograph Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 0.001%)
% = percentage

11. Polycyclic Aromatic Hydrocarbons (PAHs) Content – Entry 50 of Annex XVII of European Regulation (EC) No 1907/2006, No 552/2009 and No 1272/2013 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Former Known as Directive 2005/69/EC)

Parameter	CAS No.	Unit	Result	Limit
			B4+B18	
Benzo (a) pyrene	50-32-8	mg/kg	ND	0.5
Benzo (e) pyrene	192-97-2	mg/kg	ND	0.5
Benzo (a) anthracene	56-55-3	mg/kg	ND	0.5
Chrysen	218-01-9	mg/kg	ND	0.5
Benzo (b) fluoranthene	205-99-2	mg/kg	ND	0.5
Benzo (j) fluoranthene	205-82-3	mg/kg	ND	0.5
Benzo (k) fluoranthene	207-08-9	mg/kg	ND	0.5
Dibenzo (a,h) anthracene	53-70-3	mg/kg	ND	0.5
Conclusion			PASS	-

Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 0.1 mg/kg)
mg/kg = milligram per kilogram

12. Organostannic Compounds (DBT, DOT and Tri-Substituted organostannic compounds) – Entry 20 of Annex XVII of European Regulation (EC) No 1907/2006, No 552/2009 and No. 276/2010 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (European Directive 2009/425/EC)

Test Item	Result (%)			Conclusion
	DBT	DOT	Tri-substituted Organotin compound	
B1+B2	ND	ND	ND	PASS
B4+B18	ND	ND	ND	PASS
B12+B13+B14	ND	ND	ND	PASS
B17	ND	ND	ND	PASS
B19+B20	ND	ND	ND	PASS
Limit (% by weight of tin)	0.1	0.1	0.1	-

Method: With Reference to ISO 17353

Note: ND = Not Detected (Lab reporting limit: 0.01%)
% = percentage

Remark: This list of Organotin compounds is summarized in below table:

List of Organotin compound			
Type	Name of Analyte	Type	Name of Analyte
I	Tri-substituted Organotin compound - Tripropyltin(TPT) - Tributyltin (TBT) - Trioctyl tin(TOT) - Triphenyltin (TPhT) - Tricyclohexyltin(TcyT)	II	Dibutyltin (DBT)
		III	Dioctyltin (DOT)

List of sample type	
Type	Description
I	Articles, or part thereof, placed on the market after 1 July 2010
II	Mixtures of articles, or part thereof, placed on the market after 1 January 2012, except materials and articles regulated under Regulation (EC) No 1935/2004; and For the following mixtures or articles, or part thereof, placed on the market after 1 January 2015, one-component and two-component room temperature vulcanization sealants (RTV-1 and RTV-2 sealants) and adhesives paints and coatings containing DBT compounds as catalysts when applied on articles, soft polyvinyl chloride (PVC) profiles whether by themselves or coextruded with hard PVC, fabrics coated with PVC containing DBT compounds as stabilisers when intended for outdoor application, outdoor rainwater pipes, gutters and fittings, as well as covering material for roofing and facades.
III	Articles, or part thereof, placed on the market after 1 January 2012, - textile articles intended to come into contact with the skin, - gloves, - footwear or part of footwear intended to come into contact with the skin, - wall and floor coverings, - childcare articles, - female hygiene products, - nappies, - two-component room temperature vulcanization moulding kits (RTV-2 moulding kits)

13. Nonylphenol Ethoxylates and Nonylphenol Content – Entry 46 of Annex XVII of European Regulation (EC) No 1907/2006 and No 552/2009 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Former Known as Directive 2003/53/EC)

Test Item	Result (%)		Conclusion
	Nonylphenol ethoxylates (NPEO)	Nonylphenol (NP)	
B12+B13+B14	ND	ND	PASS
B17	ND	ND	PASS
B19+B20	ND	ND	PASS
Limit	0.1	0.1	-

Method: Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer / Liquid Chromatograph Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 0.01% for NPEO; 0.001% for NP)
% = percentage

14. Dimethyl Fumarate Content – Entry 61 of Annex XVII of European Regulation (EC) No 1907/2006, No 552/2009 and No 412/2012 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Former Known as Directive 2009/251/EC)

Test Item	Dimethyl Fumarate [CAS No. 624-49-7] (mg/kg)		Conclusion
	Result	Limit	
C1	ND	0.1	PASS
C2	ND	0.1	PASS
C3	ND	0.1	PASS
C4	ND	0.1	PASS
C5	ND	0.1	PASS
C6	ND	0.1	PASS
C7	ND	0.1	PASS
C8	ND	0.1	PASS

Method: Sample was extracted with organic solvent and analyzed by Gas Chromatograph Mass Spectrometer.

Note: ND = Not Detected (Lab reporting limit: 0.1 mg/kg)
mg/kg = milligram per kilogram

15. 219 Substances of Very High Concern (SVHC) Test based on the SVHC Candidate List published by European Chemicals Agency (ECHA) on July 08, 2021 regarding Regulation (EC) No. 1907/2006 concerning the REACH

Test Item	Detected Chemicals	Result (%)	Limit (%)	Conclusion
B	-	ND	0.1	PASS
C	-	ND	0.1	PASS

Method: Sample was digested with acid mixture and analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer / Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer / Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Electron Capture Detector / Ultraviolet–visible spectroscopy / Sample was analyzed by Headspace Gas Chromatograph Mass Spectrometer

Note: ND = Not Detected (Lab reporting limit: 0.01%)
% = percentage

List of SVHC:

	Substance Name	CAS No.	EC No.
1	*Triethyl arsenate	15606-95-8	427-700-2
2	*Diarsenic pentaoxide	1303-28-2	215-116-9
3	*Diarsenic trioxide	1327-53-3	215-481-4
4	*Cobalt dichloride	7646-79-9	231-589-4
5	*Sodium dichromate	7789-12-0 10588-01-9	234-190-3

	Substance Name	CAS No.	EC No.
6	*Lead hydrogen arsenate	7784-40-9	232-064-2
7	Dibutyl phthalate (DBP)	84-74-2	201-557-4
8	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7
9	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	204-211-0
10	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4
11	Anthracene	120-12-7	204-371-1
12	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	202-974-4
13	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	3194-55-6 25637-99-4 (134237-50-6) (134237-51-7) (134237-52-8)	247-148-4 and 221-695-9
14	# Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5
16	2,4-Dinitrotoluene	121-14-2	204-450-0
17	[a]Anthracene oil	90640-80-5	292-602-7
18	[a]Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5
19	[a]Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9
20	[a]Anthracene oil, anthracene-low	90640-82-7	292-604-8
21	[a]Anthracene oil, anthracene paste	90640-81-6	292-603-2
22	Diisobutyl phthalate	84-69-5	201-553-2
23	*Lead Chromate	7758-97-6	231-846-0
24	*Lead Chromate Molybdate Sulfate Red (C.I. Pigment Red 104)	12656-85-8	235-759-9
25	*Lead Sulfochromate Yellow (C.I. Pigment Yellow 34)	1344-37-2	215-693-7
26	Acrylamide	79-06-1	201-173-7
27	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5
28	Coal tar pitch, high temperature	65996-93-2	266-028-2
29	Trichloroethylene	79-01-6	201-167-4
30	*Boric acid	10043-35-3 / 11113-50-1	233-139-2 / 234-343-4
31	*Disodium tetraborate, anhydrous	1330-43-4 12179-04-3 1303-96-4	215-540-4
32	*Tetraboron disodium heptaoxide, hydrate	12267-73-1	235-541-3
33	*Sodium chromate	7775-11-3	231-889-5
34	*Potassium chromate	7789-00-6	232-140-5
35	*Ammonium dichromate	7789-09-5	232-143-1
36	*Potassium dichromate	7778-50-9	231-906-6
37	*Cobalt (II) sulphate	10124-43-3	233-334-2
38	*Cobalt (II) dinitrate	10141-05-6	233-402-1
39	*Cobalt (II) carbonate	513-79-1	208-169-4
40	*Cobalt (II) diacetate	71-48-7	200-755-8
41	2-Methoxyethanol	109-86-4	203-713-7
42	2-Ethoxyethanol	110-80-5	203-804-1
43	*Chromium trioxide	1333-82-0	215-607-8
44	* Chromic acid, *Oligomers of chromic acid and dichromic acid, *Dichromic acid	7738-94-5 -- 13530-68-2	231-801-5 -- 236-881-5
45	2-ethoxyethyl acetate	111-15-9	203-839-2
46	*Strontium chromate	7789-06-2	232-142-6

	Substance Name	CAS No.	EC No.
47	1,2-Benzenedicarboxylic acid, di-C7-11- branched and linear alkyl esters (DHNUP)	68515-42-4	271-084-6
48	Hydrazine	7803-57-8 302-01-2	206-114-9
49	1-methyl-2-pyrrolidone	872-50-4	212-828-1
50	1,2,3-trichloropropane	96-18-4	202-486-1
51	1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP)	71888-89-6	276-158-1
52	*Zirconia Aluminosilicate Refractory Ceramic Fibres	--	--
53	*Calcium arsenate	7778-44-1	231-904-5
54	Bis(2-methoxyethyl) ether	111-96-6	203-924-4
55	*Aluminosilicate Refractory Ceramic Fibres	--	--
56	*Potassium hydroxyoctaoxodizincate dichromate	11103-86-9	234-329-8
57	*Lead dipicrate	6477-64-1	229-335-2
58	N,N-dimethylacetamide	127-19-5	204-826-4
59	*Arsenic acid	7778-39-4	231-901-9
60	2-Methoxyaniline / o-Anisidine	90-04-0	201-963-1
61	*Trilead diarsenate	3687-31-8	222-979-5
62	1,2-dichloroethane	107-06-2	203-458-1
63	*Pentazinc chromate octahydroxide	49663-84-5	256-418-0
64	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	205-426-2
65	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	500-036-1
66	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6
67	*Lead diazide, Lead azide	13424-46-9	236-542-1
68	*Lead styphnate	15245-44-0	239-290-0
69	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	202-918-9
70	Phenolphthalein	77-09-8	201-004-7
71	*Dichromium tris(chromate)	24613-89-6	246-356-2
72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9
74	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2
75	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5
76	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6
77	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6
78	*Diboron trioxide	1303-86-2	215-125-8
79	Formamide	75-12-7	200-842-0
80	*Lead(II) bis(methane sulfonate)	17570-76-2	401-750-5
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2
82	§TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3
83	§β-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	423-400-0
84	α,α-Bis[4-(dimethylamino) phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8
85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9
86	Pentacosafluorotridecanoic acid	72629-94-8	276-745-2
87	Tricosafluorododecanoic acid	307-55-1	206-203-2
88	Henicosafluoroundecanoic acid	2058-94-8	218-165-4
89	Heptacosafluorotetradecanoic acid	376-06-7	206-803-4

	Substance Name	CAS No.	EC No.
90	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8
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	201-604-9 236-086-3 238-009-9
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	247-094-1 243-072-0 256-356-4 260-566-1
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	210-894-6
96	N,N-dimethylformamide	68-12-2	200-679-5
97	#Dibutyltin dichloride (DBTC)	683-18-1	211-670-0
98	*Lead monoxide (Lead oxide)	1317-36-8	215-267-0
99	*Orange lead (Lead tetroxide)	1314-41-6	215-235-6
100	*Lead bis(tetrafluoroborate)	13814-96-5	237-486-0
101	*Trilead bis(carbonate)dihydroxide	1319-46-6	215-290-6
102	*Lead titanium trioxide	12060-00-3	235-038-9
103	*Lead titanium zirconium oxide	12626-81-2	235-727-4
104	*Silicic acid, lead salt	11120-22-2	234-363-3
105	*Silicic acid (H2Si2O5), barium salt (1:1), lead-doped [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	272-271-5
106	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0
107	Methyloxirane (Propylene oxide)	75-56-9	200-879-2
108	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2
109	Diisopentylphthalate (DIPP)	605-50-5	210-088-4
110	N-pentyl-isopentylphthalate	776297-69-9	--
111	1,2-diethoxyethane	629-14-1	211-076-1
112	*Acetic acid, lead salt, basic	51404-69-4	257-175-3
113	*Lead oxide sulfate	12036-76-9	234-853-7
114	*[Phthalato(2-)]dioxotrilead	69011-06-9	273-688-5
115	*Dioxobis(stearato)trilead	12578-12-0	235-702-8
116	*Fatty acids, C16-18, lead salts	91031-62-8	292-966-7
117	*Lead cynamidate	20837-86-9	244-073-9
118	*Lead dinitrate	10099-74-8	233-245-9
119	*Pentalead tetraoxide sulphate	12065-90-6	235-067-7
120	*Pyrochlore, antimony lead yellow	8012-00-8	232-382-1

	Substance Name	CAS No.	EC No.
121	*Sulfurous acid, lead salt, dibasic	62229-08-7	263-467-1
122	*Tetraethyllead	78-00-2	201-075-4
123	*Tetralead trioxide sulphate	12202-17-4	235-380-9
124	*Trilead dioxide phosphonate	12141-20-7	235-252-2
125	Furan	110-00-9	203-727-3
126	Diethyl sulphate	64-67-5	200-589-6
127	Dimethyl sulphate	77-78-1	201-058-1
128	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7
129	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7
130	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8
131	4,4'-oxydianiline and its salts	101-80-4	202-977-0
132	4-aminoazobenzene	60-09-3	200-453-6
133	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1
134	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1
135	Biphenyl-4-ylamine	92-67-1	202-177-1
136	o-aminoazotoluene [(4-o-tolylazo-o-toluidine])	97-56-3	202-591-2
137	o-toluidine	95-53-4	202-429-0
138	N-methylacetamide	79-16-3	201-182-6
139	Cadmium	7440-43-9	231-152-8
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4
141	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9
142	Dipentyl phthalate (DPP)	131-18-0	205-017-9
143	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]*	--	--
144	*Cadmium oxide	1306-19-0	215-146-2
145	*Lead di(acetate)	301-04-2	206-104-4
146	*Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)*	573-58-0	209-358-4
147	*Trixylyl phosphate*	25155-23-1	246-677-8
148	*Imidazolidine-2-thione; (2-imidazoline-2-thiol)*	96-45-7	202-506-9
149	Dihexyl phthalate	84-75-3	201-559-5
150	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	217-710-3
151	*Cadmium sulphide	1306-23-6	215-147-8
152	*Cadmium chloride	10108-64-2	233-296-7
153	*Sodium peroxometaborate	7632-04-4	231-556-4
154	*Sodium perborate; perboric acid, sodium salt	--	239-172-9 234-390-0
155	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5
156	*Cadmium fluoride	7790-79-6	232-222-0
157	*Cadmium sulphate	10124-36-4 31119-53-6	233-331-6
158	2-Benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6
159	2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8
160	2-Ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4
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-	-	-

	Substance Name	CAS No.	EC No.
	ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)		
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	271-094-0 272-013-1
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-secbutyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] orany combination there]	-	-
164	Nitrobenzene	98-95-3	202-716-0
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8
166	2-(2H-benzotriazol-2- yl)-4-(tert-butyl)-6-(secbutyl) phenol (UV-350)	36437-37-3	253-037-1
167	1,3-propanesultone	1120-71-4	214-317-9
168	Perfluorononan-1-oicacid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3
169	Benzo[def]chrysene (benzo[a]pyrene)	50-32-8	200-028-5
170	4-tert-pentylphenol (PTAP)	80-46-6	201-280-9
171	4-heptylphenol, branched and linear (4-HPbl)	-	-
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2	206-400-3
173	4,4'-isopropylidenediphenol (Bisphenol A)	80-05-7	201-245-8
174	Perfluorohexane-1-sulphonic acid and its salts	-	-
175	Benz[a]anthracene	56-55-3 1718-53-2	200-280-6
176	*Cadmium carbonate	513-78-0	208-168-9
177	*Cadmium hydroxide	21041-95-2	244-168-5
178	*Cadmium nitrate	10022-68-1 10325-94-7	233-710-6
179	Chrysene	218-01-9 1719-03-5	205-923-4
180	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene (“Dechlorane Plus”™)	-	-
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	-
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride	552-30-7	209-008-0
183	Benzo[ghi]perylene	191-24-2	205-883-8
184	Decamethylcyclopentasiloxane	541-02-6	208-764-9
185	Dicyclohexyl phthalate	84-61-7	201-545-9
186	*Disodium octaborate	12008-41-2	234-541-0
187	Dodecamethylcyclohexasiloxane	540-97-6	208-762-8
188	Ethylenediamine	107-15-3	203-468-6
189	Lead	7439-92-1	231-100-4
190	Octamethylcyclotetrasiloxane	556-67-2	209-136-7
191	Terphenyl, hydrogenated	61788-32-7	262-967-7
192	Pyrene	204-927-3	129-00-0; 1718-52-1
193	Phenanthrene	201-581-5	85-01-8
194	Fluoranthene	205-912-4	206-44-0; 93951-69-0
195	Benzo[k]fluoranthene	205-916-6	207-08-9
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6

	Substance Name	CAS No.	EC No.
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	239-139-9	15087-24-8
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	--	--
199	4-tert-butylphenol	202-679-0	98-54-4
200	2-methoxyethyl acetate	203-772-9	110-49-6
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides covering any of their individual isomers and combinations thereof	-	-
202	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-
203	Diisohexyl phthalate	71850-09-4	276-090-2
204	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6
205	2-benzyl-2-dimenthylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3
206	1-vinylimidazole	1072-63-5	214-012-0
207	2-methylimidazole	693-98-1	211-765-7
208	butyl 4-hydroxybenzoate	94-26-8	202-318-7
209	*Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	205-594-7
211	*Dioctyltin 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	-	-
212	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	-
213	*Orthoboric acid, sodium salt	13840-56-7	237-560-2
214	2,2-bis(bromomethyl) Propane1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/ 3-bromo-2, 2-bis (bromomethyl)-1- propanol (TBNPA) 2,3-dibromo-1- propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	 221-967-7 253-057-0 202-480-9
215	Glutaral	111-30-8	203-856-5
216	Medium-chain chlorinated paraffins (MCCP) (UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17)	-	-
217	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerization, covering any individual isomers and/ or combinations thereof (PDDP)	-	-
218	1,4-dioxane	123-91-1	204-66-8
219	4,4'-(1methylpropylidene) bisphenol	77-40-7	201-025-1

Remark:

1. * - The concentration of list substances were calculated as selected element(s).
2. # - The concentration of Bis(tributyltin) oxide TBTO and Dibutyltin dichloride DBTC were calculated based on Tributyltin, TBT and Dibutyltin, DBT amount in sample, respectively. The result covers TBTO with other salts of TBT and DBTC with other salts of DBT under current technologies. Further investigation is required to determine the exact amount of TBTO and DBTC in sample.
3. a - The anthracene oil derivates are complex and consists of variable compositions of Polycyclic Aromatic Hydrocarbons (PAHs) and Carbazoles. The amount of Anthracene oil derivates are calculated by the composition of PAHs and Carbazoles found in sample.
4. § - TGIC (1,3,5-tris (oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione) andβ-TGIC (1,3,5-tris [(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.
5. The chemical analysis of the Substance of Very High Concern is performed by currently available analytical techniques against the candidate list published by ECHA on July 08, 2021. This list was not finalized by ECHA and it may subject to change in the future.

16. BS EN 71-1: 2014 + A1:2018 Safety of Toys

Subclause	Requirement	Result(s)	Remark(s)
4	**General requirements**	P	
4.1	Material cleanliness	P	
4.2	Assembly	P	
4.3	Flexible plastic sheeting	P	
4.4	Toy bags	NA	
4.5	Glass	NA	
4.6	Expanding materials	NA	
4.7	Edges	P	
a)	Edges of metal or glass	P	
b)	Overlap joints	NA	
c)	Edges of metal and of rigid polymeric material	NA	
d)	Sharp functional edges	NA	
4.8	Points and metallic wires	P	
a)	Points	P	
b)	Sharp function points	NA	
c)	Metallic wires intended to be bent	NA	
d)	Metallic wires not designed to be bent	NA	
e)	Splinters on surfaces and accessible edges of toys	NA	
4.9	Protruding parts	P	
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	P	
4.16	Heavy immobile toys	NA	
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	NA	
5.1	General requirements	NA	
a)	Toys and removable components	NA	
b)	After abuse tests	NA	
c)	Metal points and wires	NA	
d)	Large and bulky toys	NA	
e)	Glued wooden toys and Toys with glued on plastic decals	NA	
f)	Toys intended for children too young to sit up unaided (No hazardous crack)	NA	
g)	Foam toy and toy containing accessible foam component, clamps and test fixture shall not damage when tested according 8.3 and 8.4	NA	

Subclause	Requirement	Result(s)	Remark(s)
5.2	Soft-filled toys and soft-filled parts of a toy	NA	
a)	Hard and sharp contaminants	NA	
b)	Toy containing small parts – Tension test, seam and materials	NA	
c)	Toy, containing fibrous filling material – Tension test, seams and materials	NA	
5.3	Plastic sheeting	NA	
5.4	Cords, chains and electrical cables in toys	NA	
5.4.1	General	NA	
5.4.2	Cords and chains in toys intended for children under 18 months	NA	
5.4.2.1	Cords and chains with the potential to tangle	NA	
5.4.2.2	Two cords or chains with the potential to tangle	NA	
5.4.2.3	Separated cords and chains	NA	
5.4.2.4	Free length of cords and chains	NA	
5.4.3	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA	
5.4.3.1	Cords and chains with the potential to tangle	NA	
5.4.3.2	Two cords or chains with the potential to tangle	NA	
5.4.3.3	Separated cords and chains	NA	
5.4.3.4	Free length of cords and chains	NA	
5.4.3.5	Cords and chains not suitable for children under 18 months	NA	
5.4.4	Fixed loops, tangled loops and nooses	NA	
5.4.5	Cords and chains on pull along toys	NA	
5.4.6	Electrical cables	NA	
5.4.7	Cross-sectional dimension of certain cords	NA	
5.4.8	Self-retracting cords	NA	
5.4.9	Toys intended to be strung across a cradle, cot or perambulator	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	
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	Packing	P	
7	Warning, marking and instructions for use	P	
	Marking and instructions for use	P	
7.1	General	P	
	Warning on toys shall not be misleading or incorrect	P	
	A toy shall not bear a warning that conflicts with the intended use of the toy, as determined by virtue of its function, dimension and characteristics	P	
	The warning shall be preceded by the words “Warning” or “Warning”	P	
	The manufacturer shall mark the warnings in a clearly visible, easily legible and understandable and accurate manner on the toy, on an affixed label or on the packaging, if appropriate, include the warnings in the instruction for use.	P	

Subclause	Requirement	Result(s)	Remark(s)
	Warning which determine the decision to purchase the toy shall appear on the consumer packaging or be otherwise clearly visible to the consumer before the purchase	P	
	Small toys that are sold without packaging (for example from a display box or from a vending machine) shall have the appropriate warning affixed to them	NA	
7.2	Toys not intended for children under 36 months	P	
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	Projectiles	NA	
7.8	Imitation protective mask and helmets	NA	
7.9	Toy kites	NA	
7.10	Roller skates, inline skates, skateboards and certain other ride- on toys	NA	
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA	
7.12	Liquid-filled teethers	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	Toy comprising monofilament fibres	NA	
7.18	Toys 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	
7.25.1	Flying toys	NA	
7.25.2	Remote controlled flying toys	NA	
7.26	Improvised projectiles	NA	

NOTE: P = Pass F = Fail NA = Not Applicable NR = Not Requested
NT = Not Tested

17. BS EN 71-2:2020 SAFETY OF TOYS (FLAMMABILITY)

Sub-clause	Requirement	Result(s)	Remark(s)
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**	P	*Note: If the material has non-identical surfaces, both sides shall be tested.*
4.5	**Soft-filled toys**	NA	

NOTE: P = Pass F = Fail NA = Not Applicable NR = Not Requested
NT = Not Tested

18. BS EN 71-8: 2018 Safety of Toys

Label age grade: Ages 3 -10 years
Appropriate age grade for testing: Ages 3 -10 years
Overall dimension of sample: 121 x 63-1/2 (inch)
Overall weight of sample: 46.2 kg

Subclause	Requirement	Result(s)
4	General	P
4.1.1	Assembly	P
4.1.2	Static strength	P
4.1.3	Maximum height	P
4.1.4	Corners and edges	NA
4.1.5	Protruding parts	P
4.1.6	Diameter of ropes and other means of suspension	NA
4.1.7	Water accumulation	NA
4.2	Barriers, handrails, ladder and similar means of access to activity toy	NA
4.2.1	Barriers, handrails preventing a child from falling down.	NA
4.2.2	Ladders and similar means of access to activity toys	P
4.3	Entrapment	P
4.3.1	Entrapment of head and neck	P
4.3.2	Entrapment of clothing and hair	NA
4.3.3	Entrapment of feet	P
4.3.4	Entrapment of fingers	P
4.4	Stability of activity toys other than slides, swings and activity toys with crossbeams, and see-saws.	P
4.4.1	General	P
4.4.2	Stability of activity toys with a free height of fall of 600mm or less	NA
4.4.3	Stability of activity toys with a free height of more than 600mm	P
4.5	Slides	NA
4.5.2	Stability of slides	NA
4.5.3	Retaining slides for slides	NA
4.5.4	Starting, sliding and run-out sections on slides	NA
4.6	Swings	NA

Subclause	Requirement	Result(s)
4.6.1.2	Swings and other activity toys with crossbeams more than 1200mm over the ground	NA
4.6.1.3	Swings and other activity toys with crossbeams 1200 mm or less above the ground	NA
4.6.2	Static strength of crossbeams, swing devices and suspension connectors	NA
4.6.3	Swings intended for children under 36 months	NA
4.6.4	Minimum clearance between adjacent swing elements, and adjacent structures	NA
4.6.5	Lateral stability of swing elements	NA
4.6.6	Minimum clearance between swing elements and the ground	NA
4.6.7	Suspension connectors and swing devices	NA
4.6.8	Impact, geometry and design of swing elements	NA
4.7	See-saws	NA
4.7.1	Stability of see-saws	NA
4.7.2	Seat/stand height	NA
4.7.3	Restraint of motion	NA
4.7.4	Pinching and crushing of fingers and toes	NA
4.7.5	Hand supports	NA
4.8	Carousels and rocking activity toys	NA
4.9	Paddling pools	NA
4.9.1	Static strength of paddling pools with non-inflatable walls	NA
4.9.2	Paddling pools with inflatable walls	NA
5	Warnings, markings, and instructions	P
5.1.1	General	P
5.1.2	Paddling pools	NA
5.2	Assembly and installation instructions	P
5.3	Maintenance	P

NOTE: P = Pass F = Fail NA = Not Applicable NR = Not Requested
NT = Not Tested

EXHIBIT(S):

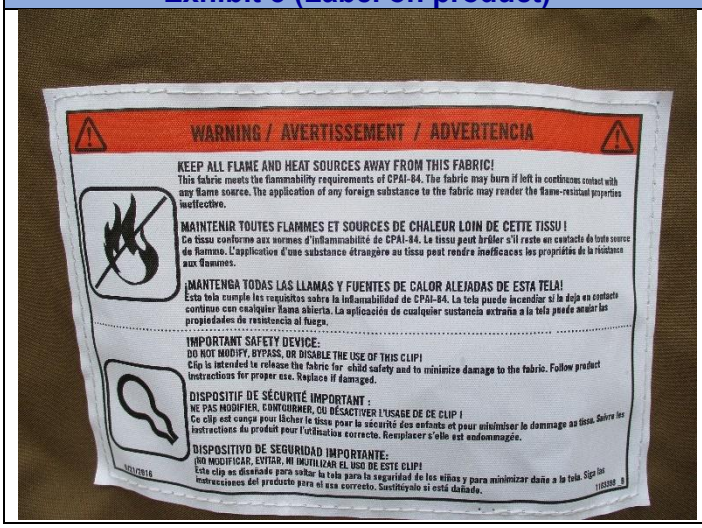
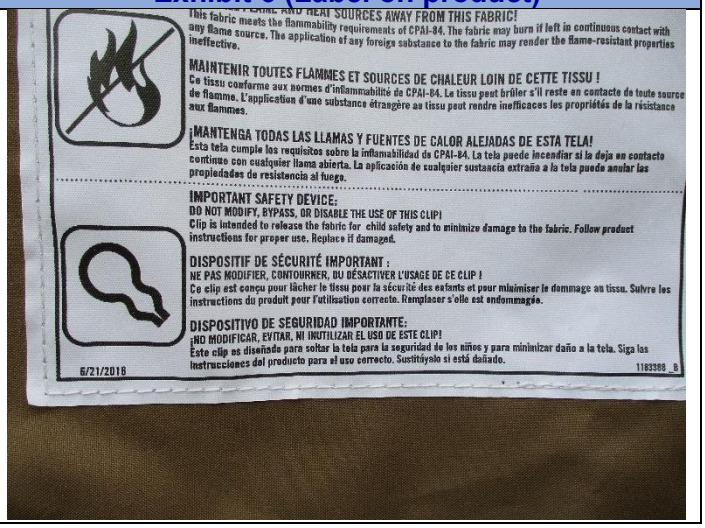
Exhibit 1 (Sample view)	Exhibit 2 (Sample view)
	
Exhibit 3 (Label on product)	**Exhibit 4 (Label on product)**
	
Exhibit 5 (Label on product)	**Exhibit 6 (Label on product)**
	

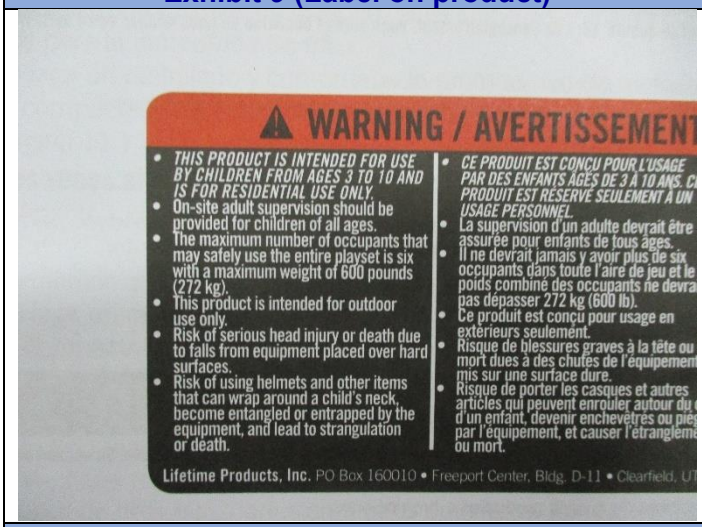
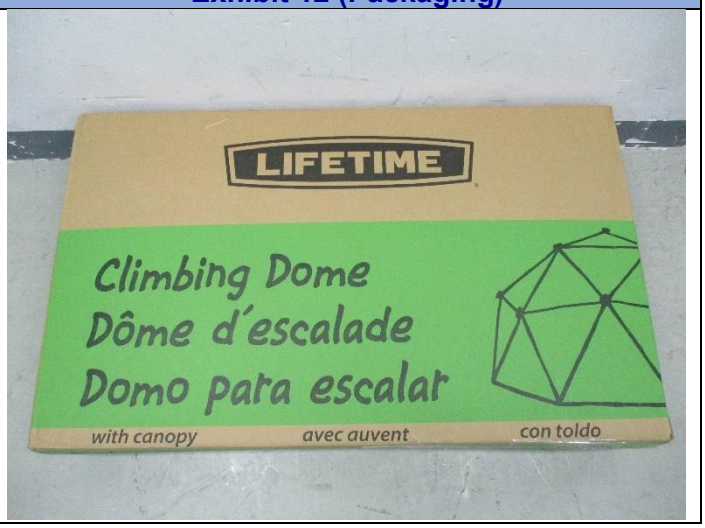
Exhibit 7 (Label on product)	Exhibit 8 (Label on product)
	
Exhibit 9 (Label on product)	**Exhibit 10 (Label on product)**
	
Exhibit 11 (Label on product)	**Exhibit 12 (Packaging)**
	

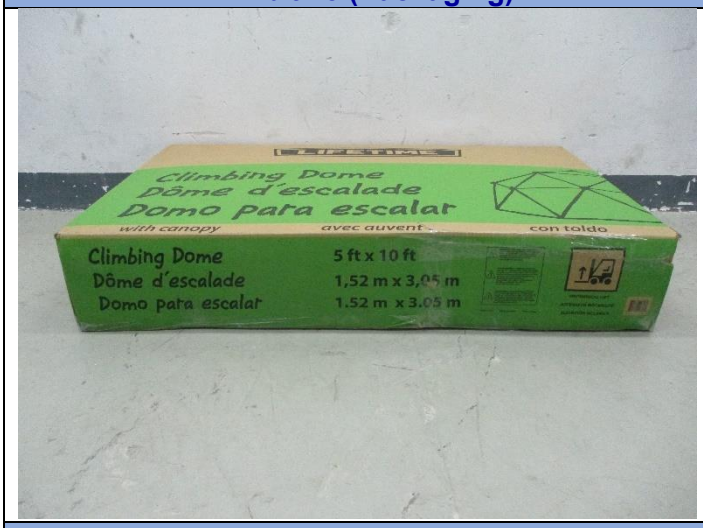
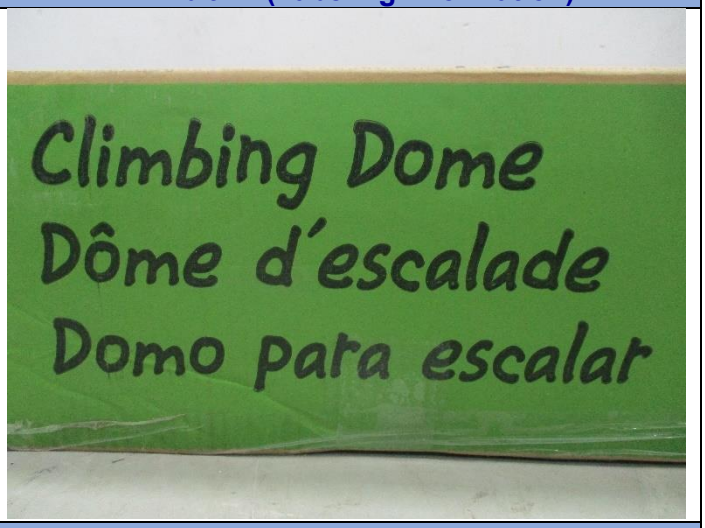
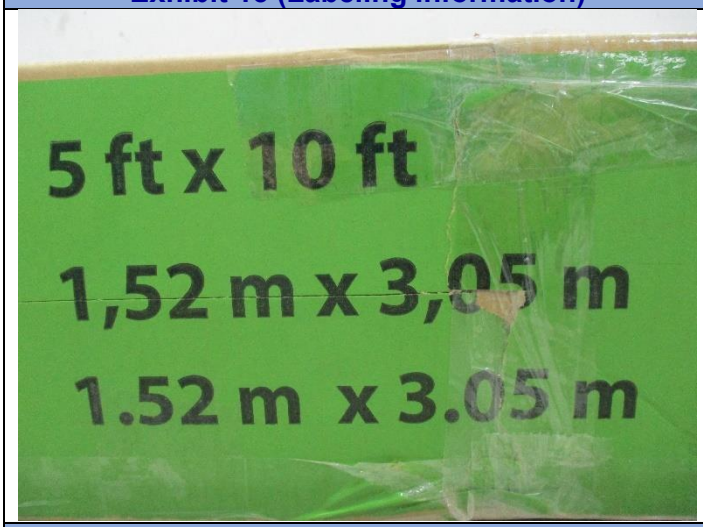
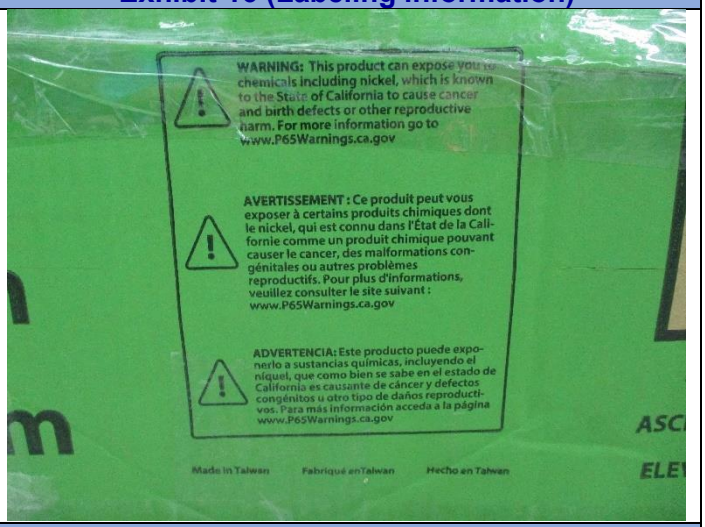
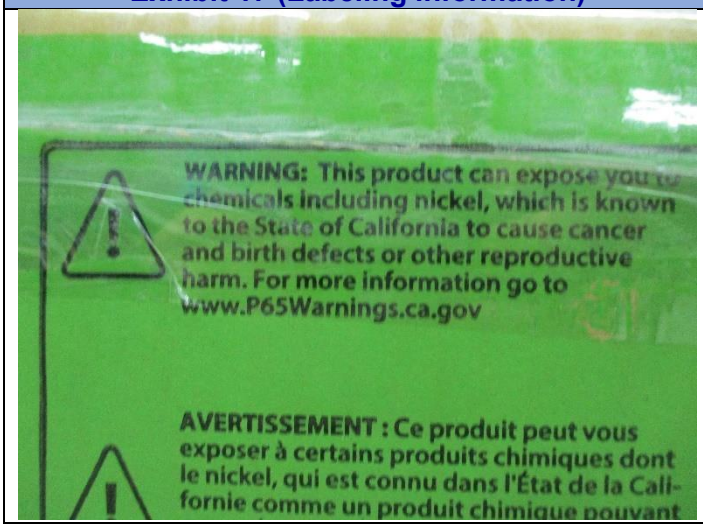
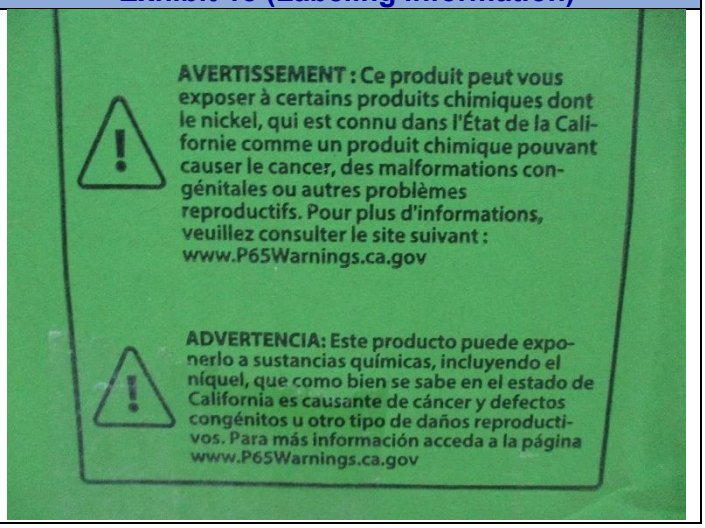
Exhibit 13 (Packaging)	Exhibit 14 (Labeling information)
	
Exhibit 15 (Labeling information)	**Exhibit 16 (Labeling information)**
	
Exhibit 17 (Labeling information)	**Exhibit 18 (Labeling information)**
	

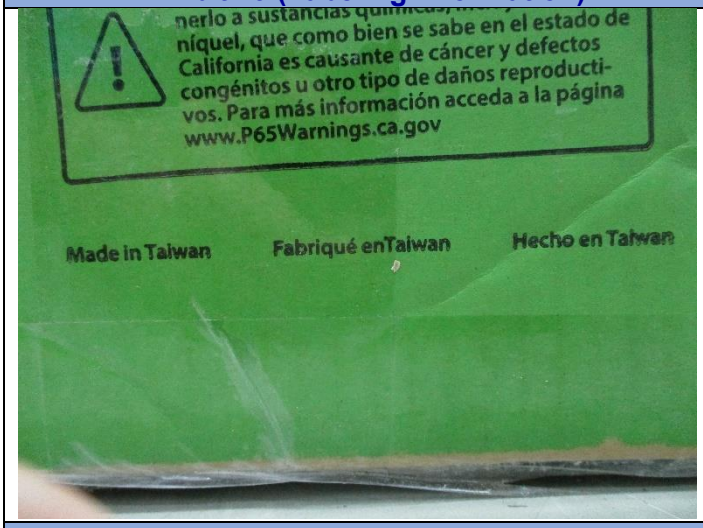
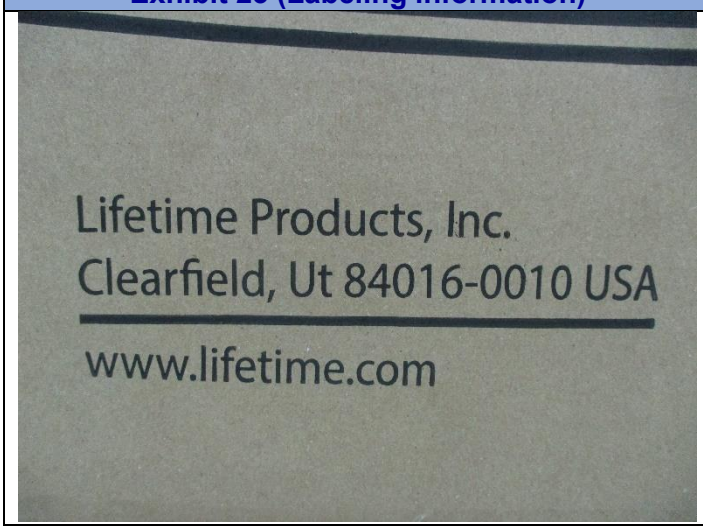
Exhibit 19 (Labeling information)	Exhibit 20 (Labeling information)
	
Exhibit 21 (Labeling information)	**Exhibit 22 (Packaging)**
	
Exhibit 23 (Labeling information)	**Exhibit 24 (Labeling information)**
	

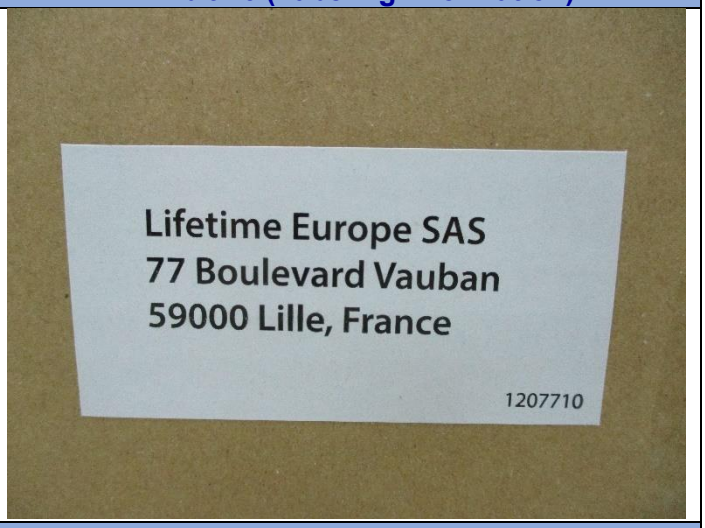
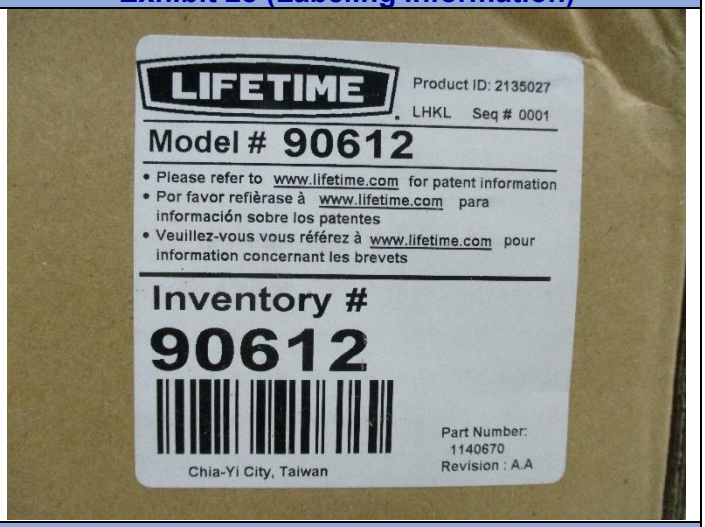
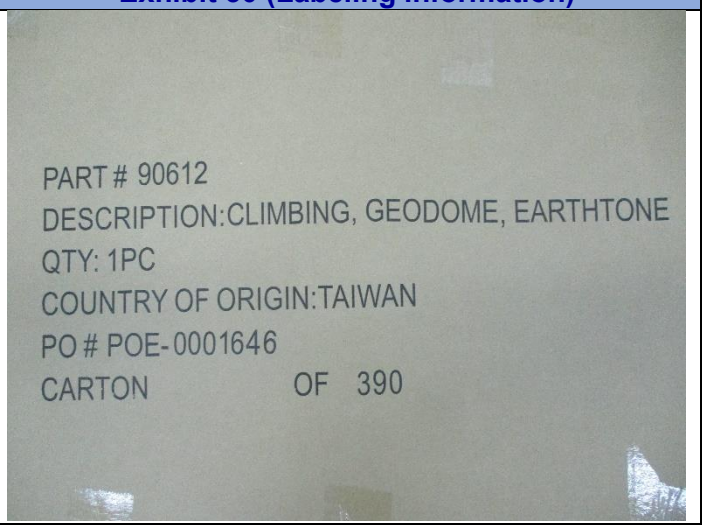
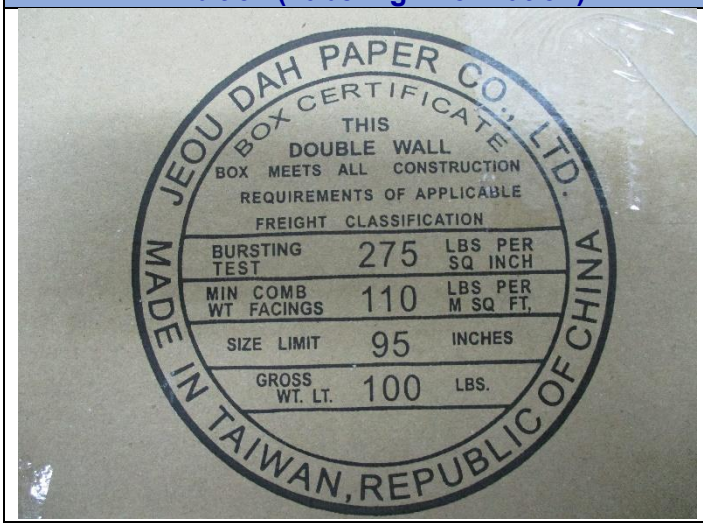
Exhibit 25 (Packaging)	Exhibit 26 (Labeling information)
	
Exhibit 27 (Labeling information)	**Exhibit 28 (Labeling information)**
	
Exhibit 29 (Packaging)	**Exhibit 30 (Labeling information)**
	

Exhibit 31 (Labeling information)	/
	/

NOTE:

If there is question or concern regarding the above results, please contact the appropriate lab person below:

Technical questions:

Primary Contact: Allen Hsu	Tel: +84-28-6289-6363 Ext: 127	Email: allenhsu@mts-global.com
Back-up Contact: Harry Vu	Tel: +84-28-6289-6363 Ext: 175	Email: harryvu@mts-global.com

Concerns About Billing and General Inquiries:

Primary Contact: Vincent Pham	Tel: +84-28-6289-6363 Ext: 114	Email: vincentpham@mts-global.com
Back-up Contact: Sophia Nguyen	Tel: +84-28-6289-6363 Ext: 107	Email: sophianguyen@mts-global.com

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