

TEST REPORT

Applicant: SUNNYLIFE GROUP PTY LTD
B1 85 DUNNING AVENUE
ROSEBERY
NSW 2018
AUSTRALIA

Attn: NOLIA CHIU

Number: HKGH0302159001

Date: Jul 18, 2023

Sample and Information provided by customer :
Item Name : **Tube Lilo White**
Quantity : 8 pieces
Country of Origin : China

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) REACH Regulation (EC) no. 1907/2006, Annex XVII Item 51, amendment no. 552/2009 & 2018/2005 - Phthalate content	Pass
(2) REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & amendment no. 552/2009 & 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Phthalates content	Pass
(3) Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217 - Cadmium content requirement	Pass
(4) Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) - Cadmium content requirement	Pass
(5) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass
(6) REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Polycyclic aromatic hydrocarbons content	Pass
(7) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 63 & Commission regulation (EU) 2015/628 - Lead content requirement	Pass
(8) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 63 & Commission regulation (EU) 2015/628 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) - Lead content requirement	Pass
(9) BS EN ISO 25649-1:2017 Floating leisure articles for use on and in the water - Part 1 : Classification, materials, general requirements and test methods	Pass



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<u>Requirement</u>	<u>Result</u>
(10) BS EN ISO 25649-2:2017 Floating leisure articles for use on and in the water - Part 2 : Consumer information, excluding: - Clause 6.5 Colour of safety information symbols and safety sign	Pass
(11) EN ISO 25649-3: 2017 Floating leisure articles for use on and in the water - Part 3 : Additional specific safety requirements and test methods for Class A devices	Pass

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.qrd.by/decision-rule-doc>.

If decision rule already inhaled in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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(1) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)		Limit (% w/w)
	(1)	(2/3)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 & 2018/2005 for articles placed on the market.

Tested Components:

- (1) Coatings (black, blue, red, yellow, grey) on plastic (word, pattern).
- (2) White plastic (body).
- (3) Transparent plastic (plug).

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(2) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)		Limit (% w/w)
	(1)	(2/3)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	0.1

The above limit was quoted according to REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & amendment no. 552/2009 & 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended.

Tested Components:

- (1) Coatings (black, blue, red, yellow, grey) on plastic (word, pattern).
- (2) White plastic (body).
- (3) Transparent plastic (plug).

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(3) Cadmium (Cd) Content

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.1
(2/3)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217

Tested Components:

- (1) Coatings (black, blue, red, yellow, grey) on plastic (word, pattern).
- (2) White plastic (body).
- (3) Transparent plastic (plug).

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(4) Cadmium (Cd) Content

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.1
(2/3)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758)

Tested Components:

- (1) Coatings (black, blue, red, yellow, grey) on plastic (word, pattern).
- (2) White plastic (body).
- (3) Transparent plastic (plug).

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(5) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)		Limit (ppm)
	(1)	(2/3)	
Benzo(a)pyrene	<0.20	<0.20	1
Benzo(e)pyrene	<0.20	<0.20	1
Benzo(a)anthracene	<0.20	<0.20	1
Chrysene	<0.20	<0.20	1
Benzo(b)fluoranthene	<0.20	<0.20	1
Benzo(j)fluoranthene	<0.20	<0.20	1
Benzo(k)fluoranthene	<0.20	<0.20	1
Dibenzo(a,h)anthracene	<0.20	<0.20	1

The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings (black, blue, red, yellow, grey) on plastic (word, pattern).
- (2) White plastic (body).
- (3) Transparent plastic (plug).

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(6) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)		Limit (ppm)
	(1)	(2/3)	
Benzo(a)pyrene	<0.20	<0.20	1
Benzo(e)pyrene	<0.20	<0.20	1
Benzo(a)anthracene	<0.20	<0.20	1
Chrysene	<0.20	<0.20	1
Benzo(b)fluoranthene	<0.20	<0.20	1
Benzo(j)fluoranthene	<0.20	<0.20	1
Benzo(k)fluoranthene	<0.20	<0.20	1
Dibenzo(a,h)anthracene	<0.20	<0.20	1

The above limit was quoted according to REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings (black, blue, red, yellow, grey) on plastic (word, pattern).
- (2) White plastic (body).
- (3) Transparent plastic (plug).

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(7) Lead (Pb) Content

Test Method : Lead content requirement in Commission regulation (EU) 2015/628 amending Annex XVII item 63 of the REACH regulation (EC) No. 1907/2006, acid digestion was used and total Lead content was determined by inductively coupled argon plasma spectrometry.

Lead Content:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.05
(2/3)	ND	0.05

ND : Not detected (< 0.002%)

Tested Components:

- (1) Coatings (black, blue, red, yellow, grey) on plastic (word, pattern).
- (2) White plastic (body).
- (3) Transparent plastic (plug).

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(8) Lead (Pb) Content

Test Method : Lead content requirement in Commission regulation (EU) 2015/628 amending Annex XVII item 63 of the REACH regulation (EC) No. 1907/2006, acid digestion was used and total Lead content was determined by inductively coupled argon plasma spectrometry.

Lead Content:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	ND	0.05
(2/3)	ND	0.05

ND : Not detected (< 0.002%)

Tested Components:

- (1) Coatings (black, blue, red, yellow, grey) on plastic (word, pattern).
- (2) White plastic (body).
- (3) Transparent plastic (plug).

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(9) Classification, materials, general requirements and test methods for floating leisure article

Test standard: BS EN ISO 25649-1:2017 – Floating leisure articles for use on and in the water - Part 1 : Classification, materials, general requirements and test methods.

Number of samples tested : Three (3) pieces.

Class of floating leisure articles: Class A.

Intended age group as specified in the packaging : 14+.

Clause	Requirement	Assessment
5.1	General	P
5.2	Body entrapment	P
5.3	Torso entrapment on safety line with regard to children	P
5.4	Accessible protruding parts causing entanglement	P
5.6	Design working pressure	P
5.7	Load bearing components	NA
5.8	Towing device	NA
5.9	Valves and valve adapters	P
5.10	Edges, corners and points	P
5.11	Shearing and crushing points	P
5.12	Strength of the hull and test conditions	
5.12.1	Requirements	P
5.12.2.1	Combined cycle pressure/ static load test for devices manufactured from unsupported material	P
5.12.2.2	Overpressure test for inflatables made from reinforced or fabric covered material	NA
5.12.3	Heat test (not applicable to Class D devices)	P
5.13	Buckles and other fixings	NA
6	Material requirements and test methods	
6.1	General	P
6.2	Chemical requirements for materials making up the hull, unsupported or reinforced	
6.2.2	Resistance to mineral oil	P
6.2.3	Resistance to chlorinated salt water	P
6.3	Physical requirements	
6.3.1	Resistance to cold	P
6.3.2	Resistance to heat	P



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Clause	Requirement	Assessment
6.4	Mechanical requirements of unsupported hull materials	
6.4.2	Resistance to puncturing	P
6.5	Mechanical requirements for reinforced hull materials	
6.5.2	Adhesion of coatings (if applicable)	NA
6.6	Other materials	
6.6.1	Wood	NA
6.6.2	Metal and synthetic material parts	NA
6.7	Threads	NA
7	Durability of warnings and markings	
7.1	Resistance to perspiration	P
7.2	Resistance to chlorinated salt water	P
7.3	Adhesion of markings	P
7.4	Provision of repair means	P

Abbreviation : P = Pass; NA = Not Applicable

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(10) Consumer information for floating leisure articles

Test standard: BS EN ISO 25649-2:2017 – Floating leisure articles for use on and in the water - Part 2 : Consumer information

Number of samples tested : Three (3) pieces.

Class of floating leisure articles: Class A.

Intended age group as specified in the packaging : 14+.

Clause	Requirement	Assessment
4	Consumer information	
4.1	General	P
4.2	Consumer information at point of sale (information before buying)	
4.2.1	General	P
4.2.2	General information to be provided	P
4.3	Information related to preparation for use	P
4.4	Information related to maintenance, repair and storage	P
5	Requirements related to printing	
5.1	General	P
5.2	Durability of printings on the product	P
5.3	Language and letter size for plain text information on the product	P
6	Product safety label	
6.1	General	P
6.2	Supplementary safety information symbol	
6.2.1	Supplementary safety information symbols related to warnings	P
6.2.2	Supplementary safety information symbols related to prohibition	P
6.2.3	Supplementary safety information symbols related to mandatory instruction	P
6.4	Position of supplementary safety information symbol and safety sign	P
6.5	Colour of supplementary safety information symbols and safety sign	NT#1
6.6	Size of supplementary safety information symbol and safety sign	P
6.7	Allocation of the supplementary safety information symbols	P
7	Instructions	P
8	Mislabelling	P

Abbreviation : P = Pass; NT = Not Tested



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Remarks:

- #1- The product safety labels on the submitted sample met the relevant clauses tested in the report except for the colour of safety symbols and/or signs as given in clause 6.5 of EN ISO 25649-2:2017 had not been assessed.
- #2 - Only the English version of the marking, packaging and instructions were assessed. According to the standard, all warnings and instructions for safe use as required by the standard shall be written in the official language of the country in which the product will be sold.

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(11) Additional specific safety requirements and test methods for Class A devices of floating leisure articles

Test standard: BS EN ISO 25649-3: 2017 – Floating leisure articles for use on and in the water - Part 3 : Additional specific safety requirements and test methods for Class A devices

Number of samples tested : Three (3) pieces.

Class of floating leisure articles: Class A.

Intended age group as specified in the packaging : 14+.

Clause	Requirement	Assessment
4	Safety requirements and test methods	
4.1	General	P
4.2	Design, sizing, admissible number of users and maximum load capacity	
4.2.1	General	P
4.2.2	Sizing	NA
4.2.3	A1-products, space per person and admissible number of users	NA
4.2.4	A2-products, space per person and admissible number of users	P
4.3	In water performance	
4.3.1	Amount of buoyancy and stable floating position	P
4.3.2	Residual buoyancy of devices claiming floating stability (CASES A, B)	NA
4.3.3	Residual buoyancy of floating leisure articles not claiming floating stability (CASES C, D)	P
4.3.4	Capsizing and escape	P
4.3.5	Grab handles and safety lines (not applicable to air mattresses)	NA
4.3.6	Re-embarkation from the water in normal use and failure of one air chamber in CASE A1	NA
4.3.7	Extreme high super structure (wind, drift)	NA
4.3.8	Anchorage	NA
4.3.9	Giant rings with bottom, strength of entire device	NA
5	Consumer information	
5.1	General	P#1
5.2	Consumer information on the packaging (point of sale information)	P#1
5.3	Consumer information on the product (information related to safe use)	P#1
5.4	Consumer information by instructions for use (separate written information)	P#1

Abbreviation : P = Pass; NA = Not Applicable



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Remarks:

#1- Only the English version of the marking and/or instructions were assessed. According to the standard, all warnings and instructions for safe use as required by the standard shall be written in the official language of the country in which the product will be sold.

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End of report

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The observations and test results in this report are relevant to the sample(s) tested and submitted by client. The report is not intended to be a recommendation for any particular course of action, you are responsible for acting as you see fit on the basis of the report results. This report does not discharge or release you from your legal obligations and duties to any other person. Only the Client is authorized to permit copying or distribution of this report and the report shall not be reproduced except in full. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

