

TEST REPORT

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

Number: HKGH0302360902

Date: Aug 09, 2023

Attn: NOLIA CHIU

Sample and Information provided by customer :
Item Name : **Dive Buddies Mermaid Set of 3**
Item No. : **SCDIVSTR**
Quantity : **6 sets**
Labelled Age Group : **6+ years**
Packaging Provided : **Yes (Artwork)**
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) EN 71-1:2014 + A1:2018 - Mechanical and physical properties	Pass
(2) UKCA mark checking	Pass
(3) EN 71-2:2020 - Flammability Test	Pass
(4) EN 71-3 : 2019 + A1 : 2021 - Migration of certain elements	Pass
(5) 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
(6) 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
(7) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass
(8) 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
(9) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass
(10) REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & 52 & 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



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<u>Requirement</u>	<u>Result</u>
(11) REACH Regulation (EC) no. 1907/2006, Annex XVII Item 43 & amendment (EC) no. 552/2009 and (EU) no. 2096/2020 - Azocolourants content ∞	Pass
(12) REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 43 & amendment no. 552/2009 and 2096/2020 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Azocolourants content requirement ∞	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.grd.by/decision-rule-doc>.
If decision rule already inhered 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) Mechanical and Physical Test

Test Standard : European Standard on Safety of toys EN 71-1:2014 + A1:2018

Age group for testing : For Ages Over 2 Years

Clause	Testing Items
8.3	Torque test (0.34 Nm)
8.4.2.1	Tension test (90 N)
8.4.2.2	Seams and materials (70 N)
8.5	Drop test (850 mm x 5)
8.7	Impact test (1 kg)
8.8	Compression test (110 N)

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
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 into 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	NA
4.17	Projectiles	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 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 for toys intended for children under 36 months	P
5.2	Soft-filled toys and soft-filled parts of a toy	P
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



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Clause	Requirement	Assessment
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 (7.24)	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, 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 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

Abbreviation : P = Pass NA = Not Applicable



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The submitted samples were undergone the abuse tests for Clause 5.1 and 5.2 in according to 8.3 (Torque test), 8.4 (Tension test), 8.5 (Drop test), 8.7 (Impact test), 8.8 (Compression test) and specific tests for different types of toys whichever applicable.

Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking. After checking, it was found that

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

Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was not found on the submitted samples.

Date sample received : Jun 15, 2023 and Jul 05, 2023 and Jul 24, 2023

Test Period : Jun 15, 2023 to Jul 26, 2023



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(2) UKCA mark checking

Below is additional information checking according to the UK Toy (Safety) Regulations requirement. The checking is not within accreditation scope.

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	Present	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, toys or packagings shall also bear the UKCA marking. However, as per the official publication on 14 November 2022, CE marking is continued to be recognised for 2 more years in UK market until 31 December, 2024.

After checking, it was found that

	Toy	Packaging
UKCA marking	Present	Present

Date sample received : Jun 15, 2023 and Jul 05, 2023 and Jul 24, 2023

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(3) Flammability Test

Test Standard : European Standard on Safety of Toys EN 71-2:2020

Clause	Requirement	Assessment
4.1	General requirements	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	P

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Jun 15, 2023 and Jul 05, 2023

Test Period : Jun 15, 2023 to Jul 15, 2023



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(4) 19 Toxic Element Migration Test

Test Method : EN 71-3 : 2019 + A1 : 2021. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	480	860	46000



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	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	100	<100	<100	46000



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	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<5.0	<5.0	<5.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .



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Tested Components:

- (1) Coatings (white, pale blue, deep pink) on fabric (sea star, shell, tail).
- (2) Off white plastic (sea star, shell, tail).
- (3) Pale pink fabric (sea star).
- (4) Bright pink fabric (shell).
- (5) Pink fabric (tail).
- (6) Transparent plastic (bag).
- (7) Translucent plastic (puller).
- (8) Dull white plastic (eyelet).
- (9) White satin with black printing (sewn-in label).

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(5) 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)	ND	0.01
(3)	ND	0.01
(4/5/6)	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 (white, pale blue, deep pink) on fabric (sea star, shell, tail).
- (2) Off white plastic (sea star, shell, tail).
- (3) Transparent plastic (bag) (internal).
- (4) Transparent plastic (bag).
- (5) Translucent plastic (puller).
- (6) Dull white plastic (eyelet).

Date sample received : Jun 15, 2023 and Jul 12, 2023

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(6) 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)	ND	0.01
(3)	ND	0.01
(4/5/6)	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 (white, pale blue, deep pink) on fabric (sea star, shell, tail).
- (2) Off white plastic (sea star, shell, tail).
- (3) Transparent plastic (bag) (internal).
- (4) Transparent plastic (bag).
- (5) Translucent plastic (puller).
- (6) Dull white plastic (eyelet).

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(7) 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)	(3/4/5)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5

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 (white, pale blue, deep pink) on fabric (sea star, shell, tail).
- (2) Off white plastic (sea star, shell, tail).
- (3) Transparent plastic (bag).
- (4) Translucent plastic (puller).
- (5) Dull white plastic (eyelet).

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(8) 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)	(3/4/5)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5

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 (white, pale blue, deep pink) on fabric (sea star, shell, tail).
- (2) Off white plastic (sea star, shell, tail).
- (3) Transparent plastic (bag).
- (4) Translucent plastic (puller).
- (5) Dull white plastic (eyelet).

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(9) Phthalate Content Test

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

Seven Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2)	(4/5/6)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	<0.0100	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	<0.0100	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	<0.0100	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	<0.0100	<0.0100	0.1

Four Phthalates content:

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



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The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

- (1) Coatings (white, pale blue, deep pink) on fabric (sea star, shell, tail).
- (2) Off white plastic (sea star, shell, tail).
- (3) Transparent plastic (bag) (internal).
- (4) Transparent plastic (bag).
- (5) Translucent plastic (puller).
- (6) Dull white plastic (eyelet).

Date sample received : Jun 15, 2023 and Jul 11, 2023

Test Period : Jun 15, 2023 to Jul 22, 2023



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(10) Phthalate Content Test

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

Seven Phthalates content:

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2)	(4/5/6)	
Dibutyl phthalate (DBP)	<0.0100	<0.0100	<0.0100	--
Diethyl hexyl phthalate (DEHP)	<0.0100	<0.0100	<0.0100	--
Benzyl butyl phthalate (BBP)	<0.0100	<0.0100	<0.0100	--
Diisobutyl phthalate (DIBP)	<0.0100	<0.0100	<0.0100	--
Sum of DBP, DEHP, BBP & DIBP	<0.0100	<0.0100	<0.0100	0.1
Diisononyl phthalate (DINP)	<0.0100	<0.0100	<0.0100	--
Di-n-octyl phthalate (DnOP)	<0.0100	<0.0100	<0.0100	--
Diisodecyl phthalate (DIDP)	<0.0100	<0.0100	<0.0100	--
Sum of DINP, DnOP & DIDP	<0.0100	<0.0100	<0.0100	0.1

Four Phthalates content:

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



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The above limit was quoted according to REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & 52 & 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 (white, pale blue, deep pink) on fabric (sea star, shell, tail).
- (2) Off white plastic (sea star, shell, tail).
- (3) Transparent plastic (bag) (internal).
- (4) Transparent plastic (bag).
- (5) Translucent plastic (puller).
- (6) Dull white plastic (eyelet).

Date sample received : Jun 15, 2023 and Jul 11, 2023

Test Period : Jun 15, 2023 to Jul 22, 2023



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TEST REPORT

Number : HKGH0302360902

(11) Detection Of Amines Derived From Azocolourants and Azodyes

Test Method : By extraction on cut sample according to the below listed test method(s), followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis and confirmed by High-Performance Liquid Chromatography / Diode Array Detector (HPLC/DAD) analysis.

EN ISO 14362-1 : 2017 for Textile Material

Method T:

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(1)	(2)	(3)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N



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No.	Forbidden Amine	CAS No.	Result (ppm)
			(4)
1	4-Aminodiphenyl	92-67-1	N
2	Benzidine	92-87-5	N
3	4-Chloro-o-toluidine	95-69-2	N
4	2-Naphthylamine	91-59-8	N
5	o-Aminoazotoluene	97-56-3	N
6	2-Amino-4-nitrotoluene	99-55-8	N
7	p-Chloroaniline	106-47-8	N
8	2,4-Diaminoanisole	615-05-4	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N
10	3,3'-Dichlorobenzidine	91-94-1	N
11	3,3'-Dimethoxybenzidine	119-90-4	N
12	3,3'-Dimethylbenzidine	119-93-7	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N
14	p-Cresidine	120-71-8	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N
16	4,4'-Oxydianiline	101-80-4	N
17	4,4'-Thiodianiline	139-65-1	N
18	o-Toluidine	95-53-4	N
19	2,4-Toluylenediamine	95-80-7	N
20	2,4,5-Trimethylaniline	137-17-7	N
21	o-Anisidine	90-04-0	N
22	p-Aminoazobenzene	60-09-3	N



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Method D:

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(1)	(2)	(3)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N



TEST REPORT

Number : HKGH0302360902

No.	Forbidden Amine	CAS No.	Result (ppm)
			(4)
1	4-Aminodiphenyl	92-67-1	N
2	Benzidine	92-87-5	N
3	4-Chloro-o-toluidine	95-69-2	N
4	2-Naphthylamine	91-59-8	N
5	o-Aminoazotoluene	97-56-3	N
6	2-Amino-4-nitrotoluene	99-55-8	N
7	p-Chloroaniline	106-47-8	N
8	2,4-Diaminoanisole	615-05-4	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N
10	3,3'-Dichlorobenzidine	91-94-1	N
11	3,3'-Dimethoxybenzidine	119-90-4	N
12	3,3'-Dimethylbenzidine	119-93-7	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N
14	p-Cresidine	120-71-8	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N
16	4,4'-Oxydianiline	101-80-4	N
17	4,4'-Thiodianiline	139-65-1	N
18	o-Toluidine	95-53-4	N
19	2,4-Toluylenediamine	95-80-7	N
20	2,4,5-Trimethylaniline	137-17-7	N
21	o-Anisidine	90-04-0	N
22	p-Aminoazobenzene	60-09-3	N

N = Not detected
 Detection limit = 5 ppm
 Requirement = 30 ppm (max.)

ppm = parts per million = mg/kg

- High Performance Liquid Chromatographic (HPLC) analysis was used to confirm any detected amines.
 - The test component with p-aminoazobenzene less than detection limit was tested by EN ISO 14362-1 : 2017 for textile material / EN ISO 17234-1: 2015 for leather material.

Method T : Direct buffer extraction as per EN ISO 14362-1 : 2017 Section 10.2
 Method D : Colourant extraction with Xylene as per EN ISO 14362-1 : 2017 Section 10.1

If both methods T and D conducted, final conclusion was based on the highest value of each amine.



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Tested Components:

- (1) Pale pink fabric with coatings (sea star).
- (2) Bright pink fabric with coatings (shell).
- (3) Pink fabric with coatings (tail).
- (4) White satin with black printing (sewn-in label).

Decision Rule:

∞ : In the case of levels per amine component is equal or smaller than 30 ppm:
According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected. The tested sample/component were in compliance with requirement.

In the case of levels per amine component is greater than 30 ppm:
The analytical result suggests that the commodity submitted has been manufactured or treated using azo colorant/s which can release one or more of certain listed amines by cleavage of their azo group/s at levels greater than 30 ppm. The tested sample/component did not comply the requirement.

Date sample received : Jun 15, 2023 and Jul 26, 2023

Test Period : Jun 15, 2023 to Jul 28, 2023



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TEST REPORT

Number : HKGH0302360902

(12) Detection Of Amines Derived From Azocolourants and Azodyes

Test Method : By extraction on cut sample according to the below listed test method(s), followed by Gas Chromatographic - Mass Spectrometric (GC-MS) analysis and confirmed by High-Performance Liquid Chromatography / Diode Array Detector (HPLC/DAD) analysis.

BS EN ISO 14362-1 : 2017 for Textile Material

Method T:

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(1)	(2)	(3)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N



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Number : HKGH0302360902

No.	Forbidden Amine	CAS No.	Result (ppm)
			(4)
1	4-Aminodiphenyl	92-67-1	N
2	Benzidine	92-87-5	N
3	4-Chloro-o-toluidine	95-69-2	N
4	2-Naphthylamine	91-59-8	N
5	o-Aminoazotoluene	97-56-3	N
6	2-Amino-4-nitrotoluene	99-55-8	N
7	p-Chloroaniline	106-47-8	N
8	2,4-Diaminoanisole	615-05-4	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N
10	3,3'-Dichlorobenzidine	91-94-1	N
11	3,3'-Dimethoxybenzidine	119-90-4	N
12	3,3'-Dimethylbenzidine	119-93-7	N
13	3,3'-Dimethyl- 4,4'diaminodiphenylmethane	838-88-0	N
14	p-Cresidine	120-71-8	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N
16	4,4'-Oxydianiline	101-80-4	N
17	4,4'-Thiodianiline	139-65-1	N
18	o-Toluidine	95-53-4	N
19	2,4-Toluylenediamine	95-80-7	N
20	2,4,5-Trimethylaniline	137-17-7	N
21	o-Anisidine	90-04-0	N
22	p-Aminoazobenzene	60-09-3	N



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Number : HKGH0302360902

Method D:

No.	Forbidden Amine	CAS No.	Result (ppm)		
			(1)	(2)	(3)
1	4-Aminodiphenyl	92-67-1	N	N	N
2	Benzidine	92-87-5	N	N	N
3	4-Chloro-o-toluidine	95-69-2	N	N	N
4	2-Naphthylamine	91-59-8	N	N	N
5	o-Aminoazotoluene	97-56-3	N	N	N
6	2-Amino-4-nitrotoluene	99-55-8	N	N	N
7	p-Chloroaniline	106-47-8	N	N	N
8	2,4-Diaminoanisole	615-05-4	N	N	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N	N	N
10	3,3'-Dichlorobenzidine	91-94-1	N	N	N
11	3,3'-Dimethoxybenzidine	119-90-4	N	N	N
12	3,3'-Dimethylbenzidine	119-93-7	N	N	N
13	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N	N	N
14	p-Cresidine	120-71-8	N	N	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N	N	N
16	4,4'-Oxydianiline	101-80-4	N	N	N
17	4,4'-Thiodianiline	139-65-1	N	N	N
18	o-Toluidine	95-53-4	N	N	N
19	2,4-Toluylenediamine	95-80-7	N	N	N
20	2,4,5-Trimethylaniline	137-17-7	N	N	N
21	o-Anisidine	90-04-0	N	N	N
22	p-Aminoazobenzene	60-09-3	N	N	N



TEST REPORT

Number : HKGH0302360902

No.	Forbidden Amine	CAS No.	Result (ppm)
			(4)
1	4-Aminodiphenyl	92-67-1	N
2	Benzidine	92-87-5	N
3	4-Chloro-o-toluidine	95-69-2	N
4	2-Naphthylamine	91-59-8	N
5	o-Aminoazotoluene	97-56-3	N
6	2-Amino-4-nitrotoluene	99-55-8	N
7	p-Chloroaniline	106-47-8	N
8	2,4-Diaminoanisole	615-05-4	N
9	4,4'-Diaminodiphenylmethane	101-77-9	N
10	3,3'-Dichlorobenzidine	91-94-1	N
11	3,3'-Dimethoxybenzidine	119-90-4	N
12	3,3'-Dimethylbenzidine	119-93-7	N
13	3,3'-Dimethyl- 4,4'diaminodiphenylmethane	838-88-0	N
14	p-Cresidine	120-71-8	N
15	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N
16	4,4'-Oxydianiline	101-80-4	N
17	4,4'-Thiodianiline	139-65-1	N
18	o-Toluidine	95-53-4	N
19	2,4-Toluylenediamine	95-80-7	N
20	2,4,5-Trimethylaniline	137-17-7	N
21	o-Anisidine	90-04-0	N
22	p-Aminoazobenzene	60-09-3	N



TEST REPORT

Number : HKGH0302360902

N = Not detected
Detection limit = 5 ppm
Requirement = 30 ppm (max.)

ppm = parts per million = mg/kg

- High Performance Liquid Chromatographic (HPLC) analysis was used to confirm any detected amines.
- The test component with p-aminoazobenzene less than detection limit was tested by BS EN ISO 14362-1 : 2017 for textile material / BS EN ISO 17234-1: 2015 for leather material.

Method T : Direct buffer extraction as per BS EN ISO 14362-1 : 2017 Section 10.2
Method D : Colourant extraction with Xylene as per BS EN ISO 14362-1 : 2017 Section 10.1

If both methods T and D conducted, final conclusion was based on the highest value of each amine.

Tested Components:

- (1) Pale pink fabric with coatings (sea star).
- (2) Bright pink fabric with coatings (shell).
- (3) Pink fabric with coatings (tail).
- (4) White satin with black printing (sewn-in label).

Decision Rule:

∞ : In the case of levels per amine component is equal or smaller than 30 ppm:
According to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected. The tested sample/component were in compliance with requirement.

In the case of levels per amine component is greater than 30 ppm:
The analytical result suggests that the commodity submitted has been manufactured or treated using azo colorant/s which can release one or more of certain listed amines by cleavage of their azo group/s at levels greater than 30 ppm. The tested sample/component did not comply the requirement.

Date sample received : Jun 15, 2023 and Jul 26, 2023

Test Period : Jun 15, 2023 to Jul 28, 2023



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TEST REPORT

Number : HKGH0302360902



End of report

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