



The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No.	: AYHA23-10932
Sample Description	: TOTTER AND TUMBLE PLAYMAT
Detail of Sample	: Totter and tumble playmat having information packaging box.
Style no./Item no.	: -
Order No.	: -
Buyer	: TOTTER AND TUMBLE
Manufacturer	: -
Country of Origin	: KOREA
Country of Destination	: -
Labeled Age Grading	: None
Requested Test Age Grading	: 0 years +
SGS assessed age(based on CEN ISO 8124-8/CPSC Age Determination guidelines)	: All ages
Received Date	: 2023. 11. 09
Test Period	: 2023. 11. 09 to 2023. 11. 16
Test Method	: For further details, please refer to following page(s)
Test Results	: For further details, please refer to following page(s)
Report Comments	: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report is not related to Korea Laboratory Accreditation Scheme. The statement of conformity was made on the requested specification or standard. The decision rule would be based on the binary statement (Pass/Fail) according to ILAC-G8:09/2019 guideline 4.2.1 without taking measurement uncertainty into account by applicant's agreement.

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Test Report

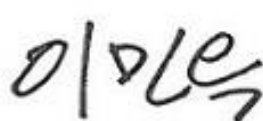
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Result Summary

Test Requested	Conclusion
EN 71 Part 1:2014+A1:2018 - Mechanical and Physical Properties	PASS
EN 71 Part 2:2020 - Flammability of Toys	PASS
Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys	SEE RESULT 1
Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2019/1922 - EN71-3:2019+A1:2021 – Migration of certain elements (By all conclusive testing)	PASS
As specified by client, selected parts of the submitted sample(s) with reference to Safety of Toys, EN 71-9:2005+A1:2007 – Organic Chemical Compounds – Requirements.	--
1) To determine Monomers (Migration) in the submitted samples	PASS
Phthalates content Entry 51 of Regulation (EU) 2018/2005 and Entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006	PASS
Cadmium content Entry 23 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendments Regulation (EU) No. 494/2011, Regulation (EU) 835/2012 and Regulation (EU) 2016/217	PASS
Formamide Commission Directive (EU) 2015/2115 amending Appendix C of Annex II to European Directive 2009/48/EC – Formamide Requirement	PASS
AfPS GS 2019:01 PAK – Polycyclic Aromatic Hydrocarbons (PAHs) Content	PASS



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Test Conducted

European Standard on Safety of Toys

- Mechanical & Physical Properties

As specified in European standard on safety of toys EN 71 Part 1:2014+A1:2018

Clause	Description	Result
4	General requirements	-
4.1	Material cleanliness	PASS
4.7	Edges	PASS
4.8	Points and metallic wires	PASS
5	Toy intended for children under 36 months	-
5.1	General requirements	PASS
5.1a	Small part requirement on toys & Removable components (Test method 8.2)	PASS
5.1b	Torque test (Test method 8.3)	PASS
5.1b	Tension test (Test method 8.4)	PASS
5.1b	Tip over test (Test method 8.6)	PASS
5.1b	Impact test (Test method 8.7)	PASS
5.1b	Sharpness of edges (Test method 8.11)	PASS
5.1b	Sharpness of points (Test method 8.12)	PASS
5.1d	Large and bulky toys	PASS
6	Packaging	PASS

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- Flammability of Toys

As specified in European standard on safety of toys EN71 PART 2: 2020

Clause	Description	Result
4.1	General requirements	PASS

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See Result 1

Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC - Safety of toys

Summary table :

Observation	Result	Location
Washing/Cleaning instruction	PRESENT	Packaging
CE mark	PRESENT	Packaging
Importer's Name & Address	PRESENT	Packaging
Manufacturer's Name & Address	PRESENT	Packaging
Product identification	PRESENT	Packaging

Note:

1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soaked washable.
2. CE marking should be visible from outside the packaging and its height must be at least 5 mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

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Component List / List of Materials

Material No.	Component	Material	Remark
1	Beige/ light beige mix printed mat skin	Polymer	/
2	Green/ gray mix printed mat skin	Polymer	/
3	White foam	Polymer	/

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Test Results :

Directive 2009/48/EC and its Amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2019/1922 - EN71-3:2019+A1:2021 – Migration of certain elements

Category III: Scrapped-off toy material

Method : With reference to EN71-3:2019+A1:2021. Analysis of general elements was performed by ICP-OES and Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS. Organic Tin was analyzed by GC-MS.

Test Item	Result (mg/kg)			Reporting Limit (mg/kg)	Permissible Limit EN71-3: 2019 + A1:2021 (mg/kg)
	1	2	3		
Mass of trace amount (mg)	--	--	--	--	--
Soluble Aluminium (Al)	N.D.	N.D.	N.D.	50	28,130
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	10	560
Soluble Arsenic (As)	N.D.	N.D.	N.D.	10	47
Soluble Barium (Ba)	N.D.	N.D.	N.D.	50	18,750
Soluble Boron (B)	N.D.	N.D.	N.D.	50	15,000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	5	17
Soluble Chromium (III) (Cr (III))	N.D.	N.D.	N.D.	5	460
Soluble Chromium (VI) (Cr (VI))	N.D.	N.D.	N.D.	0.01	0.053
Soluble Cobalt (Co)	N.D.	N.D.	N.D.	10	130
Soluble Copper (Cu)	N.D.	N.D.	N.D.	50	7,700
Soluble Lead (Pb)	N.D.	N.D.	N.D.	10	23
Soluble Manganese (Mn)	N.D.	N.D.	N.D.	50	15,000
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	10	94
Soluble Nickel (Ni)	N.D.	N.D.	N.D.	10	930
Soluble Selenium (Se)	N.D.	N.D.	N.D.	10	460
Soluble Strontium (Sr)	N.D.	N.D.	N.D.	50	56,000
Soluble Tin (Sn)	N.D.	N.D.	N.D.	4.9	180,000
Soluble Organic Tin	--	N.D.	N.D.	--	12
Soluble Zinc (Zn)	N.D.	N.D.	N.D.	50	46,000
Comment / Conclusion	PASS	PASS	PASS	--	--

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Test Item(s)	Soluble Organic Tin Result(s) (mg/kg)			MDL (mg/kg)
	1	2	3	
Dimethyl tin (DMT)	N.D.	N.D.	N.D.	0.5
Methyl tin (MeT)	N.D.	N.D.	N.D.	0.5
Di-n-propyl tin (DProT)	N.D.	N.D.	N.D.	0.5
Butyl tin (BuT)	N.D.	N.D.	N.D.	0.5
Dibutyl tin (DBT)	N.D.	N.D.	N.D.	0.5
Tributyl tin (TBT)	N.D.	N.D.	N.D.	0.5
n-Octyl tin (MOT)	N.D.	N.D.	N.D.	0.5
Di-n-octyl tin (DOT)	N.D.	N.D.	N.D.	0.5
Tetrabutyl tin (TeBT)	N.D.	N.D.	N.D.	0.5
Diphenyl tin (DPhT)	N.D.	N.D.	N.D.	0.5
Triphenyl tin (TPhT)	N.D.	N.D.	N.D.	0.5

- Note.
1. mg/kg = milligram per kilogram
 2. MDL = Method Detection Limit
 3. N.D. = Not Detected (< Reporting Limit, MDL)
 4. 1% = 10,000 mg/kg = 10,000 ppm
 5. Soluble Chromium (III) = Soluble Total Chromium – Soluble Chromium (VI)

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EN 71-9:2005+A1:2007 – Organic Chemical Compounds

1) Monomers migration

Method : Sample preparation with reference to EN71-10:2005 followed by analysis with reference to EN71-11:2005

Test Item(s)	CAS Number	MDL (mg/L)	Result(s) (Unit : mg/L)			Limit (mg/L)
			<u>1</u>	<u>2</u>	<u>3</u>	
Acrylamide	79-06-1	0.02	N.D.	N.D.	N.D.	0.02
Bisphenol A	80-05-7	0.04	N.D.	N.D.	N.D.	0.1
Formaldehyde	50-00-0	1	N.D.	N.D.	N.D.	2.5
Phenol	108-95-2	1	N.D.	N.D.	N.D.	15
Styrene	100-42-5	0.1	N.D.	N.D.	N.D.	0.75
Conclusion	-	-	PASS	PASS	PASS	-

Note: (1) N.D. = Not detected. (<MDL)
 (2) MDL = Method Detection Limit

Cadmium content

Method: With reference to EPA 3050B:1996, EPA 6010D:2018. Analysis by ICP-OES.

Test Items	Unit	Detection Limit	Result(s)			Permissible Limit
			<u>1</u>	<u>2</u>	<u>3</u>	
Cadmium (Cd)	mg/kg	0.5	N.D.	N.D.	N.D.	100
Conclusion	-	-	PASS	PASS	PASS	-

Note: (1) N.D. = Not Detected (lower than Detection Limit)
 (2) mg/kg = ppm
 (3) Permissible Limit specified by Commission Regulation (EU) No 835/2012 amending Annex XVII of REACH Regulation (EC) No 1907/2006

Formamide content

Method: with reference to US EPA 3550C. Analysis was performed by GC/MS.

Test Items	Unit	Detection Limit	Result(s)			Permissible Limit
			<u>1.</u>	<u>2.</u>	<u>3.</u>	
Formamide	mg/kg	10	N.D.	N.D.	N.D.	200
Comment	-	-	PASS	PASS	PASS	-

Note: 1. N.D. = not detected (< **Detection Limit**)
 2. mg/kg = milligram per kilogram

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Phthalates content

Test Method: With reference to CPSC-CH-C1001-09.4. Analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit	Result(s)			Recommended Max. Limit
			1	2	3	
<u>For all plasticized materials</u>						
Dibutyl phthalate (DBP)	84-74-2	%	N.D.	N.D.	N.D.	/
Benzyl butyl phthalate (BBP)	85-68-7	%	N.D.	N.D.	N.D.	/
Bis-(2-ethylhexyl) phthalate (DEHP)	117-81-7	%	N.D.	N.D.	N.D.	/
Diisobutyl Phthalate (DIBP)	84-69-5	%	N.D.	N.D.	N.D.	/
Total (DBP+BBP+DEHP+DIBP)	--	%	N.D.	N.D.	N.D.	0.1
<u>For toys or childcare articles if it can be placed in the mouth</u>						
Di-isononyl phthalate (DINP)	28553-12-0 / 68515-48-0	%	N.D.	N.D.	N.D.	/
Di-n-octyl phthalate (DNOP)	117-84-0	%	N.D.	N.D.	N.D.	/
Di-isodecyl phthalate (DIDP)	26761-40-0 / 68515-49-1	%	N.D.	N.D.	N.D.	/
Total (DINP+DNOP+DIDP)	--	%	N.D.	N.D.	N.D.	0.1
Conclusion		--	PASS	PASS	PASS	--

- Note:
1. N.D. = Not Detected (lower than Detection Limit)
 2. 1 % = percentage by weight
 3. Detection Limit = 0.015 %

Remark: Recommended Max. limit specified by entry 51 of Regulation (EU) 2018/2005 and entry 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006

Polycyclic aromatic hydrocarbons (PAHs) Content

Method: With reference to AfPS GS 2019:01 PAK. Analysis was performed by GC-MS.

Parameter	CAS No.	MDL	Result (mg/kg)		
			1	2	3
Benzo[a]pyrene (BaP)	50-32-8	0.1	N.D.	N.D.	N.D.
Benzo[e]pyrene (BeP)	192-97-2	0.1	N.D.	N.D.	N.D.
Benzo[a]anthracene (BaA)	56-55-3	0.1	N.D.	N.D.	N.D.
Benzo[b]fluoranthene (BbF) + Benzo[j]fluoranthene (BjF)	205-99-2 205-82-3	0.2	N.D.	N.D.	N.D.
Benzo[k]fluoranthene (BkF)	207-08-9	0.1	N.D.	N.D.	N.D.
Chrysene (CHR)	218-01-9	0.1	N.D.	N.D.	N.D.
Dibenzo[a,h]anthracene (DBA)	53-70-3	0.1	N.D.	N.D.	N.D.
Benzo[g,h,i]perylene (BPE)	191-24-2	0.1	N.D.	N.D.	N.D.
Indeno[1,2,3-cd]pyrene (IPY)	193-39-5	0.1	N.D.	N.D.	N.D.
Phenanthrene (PHE)	85-01-8	0.1	N.D.	N.D.	N.D.
Pyrene (PYR)	129-00-0	0.1	N.D.	N.D.	N.D.
Anthracene (ANT)	120-12-7	0.1	N.D.	N.D.	N.D.
Fluoranthene (FLT)	206-44-0	0.1	N.D.	N.D.	N.D.
Sum of 4 PAHs ⁺ (Phenanthrene, Pyrene, Anthracene, Fluoranthene)	--	--	N.D.	N.D.	N.D.
Naphthalene (NAP)	91-20-3	0.2	N.D.	N.D.	N.D.
Sum of 15 PAHs ⁺	--	--	N.D.	N.D.	N.D.
Conclusion	--	--	PASS	PASS	PASS

- Note:
1. N.D. = not detected (< MDL)
 2. MDL = Method Detection Limit
 3. mg/kg = milligram per kilogram
 4. + Only PAH substances > MDL are taken into account while calculating the sum of PAHs.

AfPS (German commission for Product Safety) : PAHs requirements

Parameter	Cat. 1	Cat. 2		Cat. 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use - in toys according to Directive 2009/48/EC or - for the use by children up ^{a,b} to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .			Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), Pyrene (PYR), Anthracene (ANT), Fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs acc AfPS GS 2019:01 PAK	<1	< 5	< 10	< 20	< 50

Note:

- a. A "child" is legally defined as a person before reaching the age of 14 years.
- b. Use by children includes both active and passive direct contact by children.
- c. Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation EC) No.1272/2013).
- d. According to the definition of the German Product Safety Act (ProdSG) (Chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

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Picture of Sample as Received :



AYHA23-10932

*** End of Report ***

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The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No.	:	AYHA23-10930
Sample Description	:	TOTTER AND TUMBLE PLAYMAT
Detail of Sample	:	Totter and tumble playmat having information packaging box.
Style no./Item no.	:	-
Order No.	:	-
Buyer	:	TOTTER AND TUMBLE
Manufacturer	:	-
Country of Origin	:	KOREA
Country of Destination	:	-
Labeled Age Grading	:	None
Requested Test Age Grading	:	0 years +
SGS Assessed Age Grading	:	All ages
Received Date	:	2023. 11. 09
Test Period	:	2023. 11. 09 to 2023. 11. 16
Test Method	:	For further details, please refer to following page (s)
Test Results	:	For further details, please refer to following page (s)
Report Comments	:	The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report is not related to Korea Laboratory Accreditation Scheme. The statement of conformity was made on the requested specification or standard. The decision rule would be based on the binary statement (Pass/Fail) according to ILAC-G8:09/2019 guideline 4.2.1 without taking measurement uncertainty into account by applicant's agreement.

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Test Report

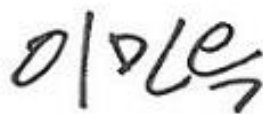
No. F690101/LF-CTSAYHA23-10930

Issued Date : 2023. 11. 16

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Result Summary

Test Requested	Conclusion
US Public Law 110-314 (Consumer Product Safety Improvement Act of 2008, CPSIA):	-
- ASTM F963-17: Standard Consumer Safety Specification on Toy Safety	PASS
- Flammability of toys (16 C.F.R. 1500.44)	PASS
- Small part (16 CFR 1501)	PASS
- Sharp points and edges (16 C.F.R. 1500.48 and 49)	PASS
- US California Proposition 65 – Phthalate Content	PASS
- US California Proposition 65 – Total Cadmium Content	PASS



Minok Lee



Tonny Park



Billy Oh

Technical Manager / SGS Korea Co., Ltd

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Test Report

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Issued Date : 2023. 11. 16

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Result Summary

ASTM F963-17

As specified in ASTM F963-17 standard consumer safety specification on toys safety.

Clauses relevant to the item:

Clause	Description	Result
4	Safety Requirements	-
4.1	Material Quality **	Pass
4.2	Flammability	Pass (See Note 1)
4.3	Toxicology	-
4.3.5	Heavy Elements	-
4.3.5.2	Toy substrate materials	Pass (See Note 2)
4.6	Small Objects	-
4.6.1	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.12	Plastic Film	Pass
4.27	Stuffed and Beanbag-Type Toys	Pass
5	Safety Labeling Requirements	-
5.2	Age Grading Labeling	Pass
7	Producer's Markings	-
7.1	Producer's Markings	Present
8	Test Methods	-
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.22	Plastic Film Thickness	Pass

N.B.: - Only applicable clauses were shown

** Visual Examination

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Test Report

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Note *1:

Flammability Test (Clause 4.2)

- Flammability Test on Solid

Sample	Burning Rate (in./s)
Totter and tumble playmat	SE

*Burning rate has been rounded to the nearest one tenth of an inch per second.

SE = Self-Extinguished

DNI = Did Not Ignite

Requirement: A toy / component is considered a “flammable solid” if it ignites and burns with a self-sustaining flame at a rate greater than 0.1 in./s along its major axis.

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Component List / List of Materials

Material No.	Component	Material	Remark
1	Beige/ light beige mix printed mat skin	Polymer	/
2	Green/ gray mix printed mat skin	Polymer	/
3	White foam	Polymer	/

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Test Report

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Note 2 :

Heavy Elements (Clause 4.3.5)

ASTM F963-17, Clause 4.3.5.2- Heavy Elements in Toys Substrate Materials

Total Lead

Method (non-metallic materials): CPSC-CH-E1002-08.3 –Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product. Analysis was performed by ICP-OES.

Test Item(s)	Lead (Pb)	Conclusion
Total Limit (mg/kg)	100	
MDL (mg/kg)	20	
Sample No.	Total Result(s) (mg/kg)	
1	N.D.	PASS
2	N.D.	PASS
3	N.D.	PASS

- Note:
- N.D. = Not Detected(<MDL)
 - MDL = Method Detection Limit

Soluble Heavy Metals

Method: With reference to ASTM F963-17 Clause 8.3. Analysis was performed by ICP-OES.

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se	Conclusion
Migration Limit (mg/kg) – Other Than Modeling Clays	90	60	25	1000	75	60	60	500	
MDL (mg/kg)	5	5	2.5	10	5	2.5	2.5	10	
Sample No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (mg/kg)							
1	--	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
2	--	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS
3	--	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS

- Note:
- Soluble results shown are of the adjusted analytical result.
 - N.D. = Not Detected(<MDL)
 - MDL = Method Detection Limit

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Test Report

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Phthalates (Polymeric material (other than PVC) for general children's products)

Method: With reference to CPSC-CH-C1001-09.4. Analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit	Result(s)			Permissible Limit
			1	2	3	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	N.D.	N.D.	N.D.	1000
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	N.D.	N.D.	N.D.	1000
Di-isodecyl phthalate (DIDP)	26761-40-0 / 68515-49-1	mg/kg	N.D.	N.D.	N.D.	1000
Di-isononylphthalate (DINP)	28553-12-0 / 68515-48-0	mg/kg	N.D.	N.D.	N.D.	1000
Di-n-Hexylphthalate (DnHP)	84-75-3	mg/kg	N.D.	N.D.	N.D.	1000
Conclusion	-	-	PASS	PASS	PASS	-
Di-cyclohexyl phthalate (DCHP)	84-61-7	mg/kg	N.D.	N.D.	N.D.	-
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	N.D.	N.D.	N.D.	-
Di-n-pentyl phthalate (DnPP)	131-18-0	mg/kg	N.D.	N.D.	N.D.	-
Di-n-octyl Phthalate (DNOP)	117-84-0	mg/kg	N.D.	N.D.	N.D.	-

- Note:
1. % = percentage by weight
 2. 1% = 10000ppm (mg/kg)
 3. N.D. = not detected (< MDL)
 4. Method Detection Limit for each phthalate = 0.015 %

Remark: The limit is referenced to the requirement as stated in the County of Marin Court Case No. CIV 091146, in the County of San Francisco Superior Court, Case No. CGC-07-465288 and in the County of Santa Clara Superior Court, 114CV267501.

The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

Total Cadmium Content

Test Method: With reference to CPSC-CH-E1002-08.3. (for non-metal materials). Analysis was performed by ICP-OES.

Test Item	Result (mg/kg)			Detection limit (mg/kg)	Reference Limit (mg/kg)
	<u>1</u>	<u>2</u>	<u>3</u>		
Cadmium (Cd)	N.D.	N.D.	N.D.	5	300
Conclusion	PASS	PASS	PASS	-	-

- Note:
1. N.D. = not detected (< Detection limit)
 2. * = exceed the limit
 3. 0.1% = 1000 mg/kg

Remark: The limit is referenced to the cadmium requirement stated in Senate Bill No. 929

The reference limit applied in testing is based on particular California Proposition 65 settlements that are most similar to the tested product in the opinion of the lab. The testing in this report does not reflect a user's actual exposure to the tested chemical.

A manufacturer or retailer that is not named in the referenced settlement is not bound by that settlement, and may choose to comply with California Proposition 65 by clearly informing the consumer of potential exposure.

Picture of Sample as Received :**AYHA23-10930**

*** End of Report ***

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The following sample(s) was/were submitted and identified by/on behalf of the client as:-

SGS File No.	: AYHA23-10944
Sample Description	: TOTTER AND TUMBLE PLAYMAT
Style no./Item no.	: -
Order No.	: -
Buyer	: TOTTER AND TUMBLE
Manufacturer	: -
Country of Origin	: KOREA
Country of Destination	: -
Received Date	: 2023. 11. 09
Test Period	: 2023. 11. 09 to 2023. 11. 16
Test Requested	: As requested by client, SVHC screening is performed according to: <ul style="list-style-type: none"> - Two hundred and thirty-five (235) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before June 14, 2023 regarding Regulation (EC) No 1907/2006 concerning the REACH. - Six (6) substances newly included in the Consultation List of Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) on September 1, 2023 regarding Regulation (EC) No 1907/2006 concerning the REACH.
Test Method	: For further details, please refer to following page (s)
Test Results	: For further details, please refer to following page (s)
Report Comments	: The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This test report is not related to Korea Laboratory Accreditation Scheme. The statement of conformity was made on the requested specification or standard. The decision rule would be based on the binary statement (Pass/Fail) according to ILAC-G8:09/2019 guideline 4.2.1 without taking measurement uncertainty into account by applicant's agreement.

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Test Requested	Conclusion
According to the specified scope and analytical techniques, concentrations of tested SVHC are $\leq 0.1\%$ (w/w) in the submitted sample.	PASS



Tonny Park



Billy Oh

Technical Manager / SGS Korea Co., Ltd

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Remark :

1. The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:

- <https://echa.europa.eu/web/guest/candidate-list-table> (Candidate list)

The lists are under evaluation by ECHA and may subject to change in the future.

2. In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

3. Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.

4. If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

5. Companies supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% weight by weight (w/w) on the EU market must comply with the Waste Framework Directive 2008/98/EC requirement and submit SCIP notifications on these articles to ECHA, as from 5 January 2021.

- <https://echa.europa.eu/scip>

Test Sample:

Sample Description:

A. Totter And Tumble Playmat

Sample No.	Group No.	Component No.	Component Description	Remark
A	1	1.	[Beige/ light beige mix] [mat skin]	/
A	1	2.	[Green/ gray mix] [mat skin]	/
A	1	3.	[White] [foam]	/

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Test Method:

SGS In-House method - Analyzed by ICP-OES, GC-MS, UV-VIS, HPLC-DAD, HPLC-MS and colorimetric method

Test Result :

No.	Substance Name	CAS No./ EC No.	RL (%)	Concentration (%)
				Group 1
-	All tested SVHC	-	-	N.D.

Notes :

1. RL = Reporting Limit. All RL are based on homogenous material
 N.D. = Not detected (lower than RL), ND is denoted on the SVHC substance.
 NA^ = The submitted sample was found to contain significant amount of specific element(s) of SVHC. Upon further test verification and also information provided from client, the possibility that the element(s) content originate from SVHC is very unlikely, even though their presence cannot be excluded entirely. It may be assumed that the detected element(s) have a non-SVHC source.
2. *The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. The client is advised to review the chemical formulation to ascertain above metal substances present in the article.
 RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).
3. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
4. Test result that shown as per test group is the actual concentration from laboratory testing. The test result is calculated by minimum sample weight. Confirmation testing is recommended as to understand the exact content of SVHC in each individual component.

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Picture of Sample as Received :



AYHA23-10944

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Appendix

No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Oct 28, 2008							
1	4,4'-Diaminodiphenylmethane (MDA)	101-77-9/ 202-974-4	0.100	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2/ 201-329-4	0.100
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8/ 287-476-5	0.100	4	Anthracene	120-12-7/ 204-371-1	0.100
5	Benzyl butyl phthalate (BBP)	85-68-7/ 201-622-7	0.100	6	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7/ 204-211-0	0.100
7	Bis(tributyltin)oxide (TBTO)	56-35-9/ 200-268-0	0.100	8	Cobalt dichloride*	7646-79-9/ 231-589-4	0.010
9	Diarsenic pentaoxide*	1303-28-2/ 215-116-9	0.010	10	Diarsenic trioxide*	1327-53-3/ 215-481-4	0.010
11	Dibutyl phthalate (DBP)	84-74-2/ 201-557-4	0.100	12	Hexabromocyclododecane (HBCDD)	-	0.100
13	Lead hydrogen arsenate*	7784-40-9/ 232-064-2	0.010	14	Sodium dichromate*	7789-12-0/ 10588-01-9/ 234-190-3	0.010
15	Triethyl arsenate*	15606-95-8/ 427-700-2	0.010				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 13, 2010							
16	2,4-Dinitrotoluene	121-14-2/ 204-450-0	0.100	17	Anthracene oil*	90640-80-5/ 292-602-7	0.100
18	Anthracene oil, anthracene paste*	90640-81-6/ 292-603-2	0.100	19	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2/ 295-275-9	0.100
20	Anthracene oil, anthracene paste; distn. Lights*	91995-17-4/ 295-278-5	0.100	21	Anthracene oil, anthracene-low*	90640-82-7/ 292-604-8	0.100
22	Diisobutyl phthalate	84-69-5/ 201-553-2	0.100	23	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8/ 235-759-9	0.010
24	Lead chromate*	7758-97-6/ 231-846-0	0.010	25	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2/ 215-693-7	0.010
26	Pitch, coal tar, high temp.*	65996-93-2/ 266-028-2	0.100	27	Tris(2-chloroethyl)phosphate	115-96-8/ 204-118-5	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Mar 30, 2010							
28	Acrylamide	79-06-1/ 201-173-7	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2010							
29	Ammonium dichromate*	7789-09-5/ 232-143-1	0.010	30	Boric acid*	-	0.010
31	Disodium tetraborate, anhydrous*	1303-96-4 1330-43-4 12179-04-3/ 215-540-4	0.010	32	Potassium chromate*	7789-00-6/ 232-140-5	0.010
33	Potassium dichromate*	7778-50-9/ 231-906-6	0.010	34	Sodium chromate*	7775-11-3/ 231-889-5	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1/ 235-541-3	0.010	36	Trichloroethylene	79-01-6/ 201-167-4	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 15, 2010							
37	2-Ethoxyethanol	110-80-5/ 203-804-1	0.100	38	2-Methoxyethanol	109-86-4/ 203-713-7	0.100
39	Acids generated from chromium trioxide and their oligomers	-	0.010	40	Chromium trioxide*	1333-82-0/ 215-607-8	0.010
41	Cobalt(II) carbonate*	513-79-1/ 208-169-4	0.010	42	Cobalt(II) diacetate*	71-48-7/ 200-755-8	0.010
43	Cobalt(II) dinitrate*	10141-05-6/ 233-402-1	0.010	44	Cobalt(II) sulphate*	10124-43-3/ 233-334-2	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2011							
45	1,2,3-Trichloropropane	96-18-4/ 202-486-1	0.100	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6/ 276-158-1	0.100
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4/ 271-084-6	0.100	48	1-Methyl-2-pyrrolidone	872-50-4/ 212-828-1	0.100
49	2-Ethoxyethyl acetate	111-15-9/ 203-839-2	0.100	50	Hydrazine	7803-57-8 302-01-2/ 206-114-9	0.100
51	Strontium chromate*	7789-06-2/ 232-142-6	0.010				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2011							
52	1,2-Dichloroethane	107-06-2/ 203-458-1	0.100	53	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4/ 202-918-9	0.100
54	2-Methoxyaniline	90-04-0/ 201-963-1	0.100	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9/ 205-426-2	0.100
56	Aluminosilicate Refractory Ceramic Fibres*	-	0.010	57	Arsenic acid*	7778-39-4/ 231-901-9	0.010
58	Bis(2-methoxyethyl) ether	111-96-6/ 203-924-4	0.100	59	Bis(2-methoxyethyl) phthalate	117-82-8/ 204-212-6	0.100
60	Calcium arsenate*	7778-44-1/ 231-904-5	0.010	61	Dichromium tris(chromate)*	24613-89-6/ 246-356-2	0.010
62	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4/ 500-036-1	0.100	63	Lead diazide*	13424-46-9/ 236-542-1	0.010
64	Lead dipicrate*	6477-64-1/ 229-335-2	0.010	65	Lead styphnate*	15245-44-0/ 239-290-0	0.010
66	N,N-dimethylacetamide (DMAC)	127-19-5/ 204-826-4	0.100	67	Pentazinc chromate octahydroxide*	49663-84-5/ 256-418-0	0.010
68	Phenolphthalein	77-09-8/ 201-004-7	0.100	69	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9/ 234-329-8	0.010
70	Trilead diarsenate*	3687-31-8/ 222-979-5	0.010	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.010

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 18, 2012							
72	[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	0.100	73	[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	0.100
74	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2/ 203-977-3	0.100	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4/ 203-794-9	0.100
76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8/ 202-027-5	0.100	77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1/ 209-218-2	0.100
78	Diboron trioxide*	1303-86-2/ 215-125-8	0.010	79	Formamide	75-12-7/ 200-842-0	0.100
80	Lead(II) bis(methanesulfonate)*	17570-76-2/ 401-750-5	0.010	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1/ 202-959-2	0.100
82	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9/ 219-514-3	0.100	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0/ 229-851-8	0.100
84	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6/ 423-400-0	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 19, 2012							
85	[Phthalato(2-)]dioxotrilead*	69011-06-9/ 273-688-5	0.010	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0/ 284-032-2	0.100
87	1,2-Diethoxyethane	629-14-1/ 211-076-1	0.100	88	1-Bromopropane	106-94-5/ 203-445-0	0.100
89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2/ 421-150-7	0.100	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.100
91	4,4'-Methylenedi-o-toluidine	838-88-0/ 212-658-8	0.100	92	4,4'-oxydianiline and its salts	-	0.100
93	4-Aminoazobenzene	60-09-3/ 200-453-6	0.100	94	4-Methyl-m-phenylenediamine	95-80-7/ 202-453-1	0.100
95	4-Nonylphenol, branched and linear	-	0.100	96	6-Methoxy-m-toluidine	120-71-8/ 204-419-1	0.100
97	Acetic acid, lead salt, basic*	51404-69-4/ 257-175-3	0.010	98	Biphenyl-4-ylamine	92-67-1/ 202-177-1	0.100
99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5/ 214-604-9	0.100	100	C,C'-azodi(formamide) (ADCA)	123-77-3/ 204-650-8	0.100
101	Dibutyltin dichloride (DBTC)	683-18-1/ 211-670-0	0.100	102	Diethyl sulphate	64-67-5/ 200-589-6	0.100
103	Diisopentylphthalate (DIPP)	605-50-5/ 210-088-4	0.100	104	Dimethyl sulphate	77-78-1/ 201-058-1	0.100

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105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7/ 201-861-7	0.100	106	Dioxobis(stearato)trilead*	12578-12-0/ 235-702-8	0.010
107	Fatty acids, C16-18, lead salts*	91031-62-8/ 292-966-7	0.010	108	Furan	110-00-9/ 203-727-3	0.100
109	Henicosafuoroundecanoic acid	2058-94-8/ 218-165-4	0.100	110	Heptacosafuorotetradecanoic acid	376-06-7/ 206-803-4	0.100
111	Cyclohexane-1,2-dicarboxylic anhydride	-	0.100	112	Hexahydromethylphthalic anhydride	-	0.100
113	Lead bis(tetrafluoroborate)*	13814-96-5/ 237-486-0	0.010	114	Lead cyanamidate*	20837-86-9/ 244-073-9	0.010
115	Lead dinitrate*	10099-74-8/ 233-245-9	0.010	116	Lead monoxide*	1317-36-8/ 215-267-0	0.010
117	Lead oxide sulphate*	12036-76-9/ 234-853-7	0.010	118	Lead tetroxide*	1314-41-6/ 215-235-6	0.010
119	Lead titanium trioxide*	12060-00-3/ 235-038-9	0.010	120	Lead titanium zirconium oxide*	12626-81-2/ 235-727-4	0.010
121	Methoxyacetic acid	625-45-6/ 210-894-6	0.100	122	N,N-Dimethylformamide	68-12-2/ 200-679-5	0.100
123	N-Methylacetamide	79-16-3/ 201-182-6	0.100	124	N-Pentyl-isopentylphthalate	776297-69-9 /-	0.100
125	o-Aminoazotoluene	97-56-3/ 202-591-2	0.100	126	o-Toluidine	95-53-4/ 202-429-0	0.100
127	Pentacosafuorotridecanoic acid	72629-94-8/ 276-745-2	0.100	128	Pentalead tetraoxide sulphate*	12065-90-6/ 235-067-7	0.010
129	Methyloxirane (Propylene oxide)	75-56-9/ 200-879-2	0.100	130	Pyrochlore, antimony lead yellow*	8012-00-8/ 232-382-1	0.010
131	Silicic acid, barium salt, lead-doped*	68784-75-8/ 272-271-5	0.010	132	Silicic acid, lead salt*	11120-22-2/ 234-363-3	0.010
133	Sulfurous acid, lead salt, dibasic*	62229-08-7/ 263-467-1	0.010	134	Tetraethyllead*	78-00-2/ 201-075-4	0.010
135	Tetralead trioxide sulphate*	12202-17-4/ 235-380-9	0.010	136	Tricosafuorododecanoic acid	307-55-1/ 206-203-2	0.100
137	Trilead bis(carbonate)dihydroxide*	1319-46-6/ 215-290-6	0.010	138	Trilead dioxide phosphonate*	12141-20-7/ 235-252-2	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2013							
139	4-Nonylphenol, branched and linear, ethoxylated	-	0.100	140	Ammoniumpentadecafluoro octanoate (APFO)	3825-26-1/ 223-320-4	0.100
141	Cadmium	7440-43-9/ 231-152-8	0.010	142	Cadmium oxide*	1306-19-0/ 215-146-2	0.010
143	Dipentyl phthalate (DPP)	131-18-0/ 205-017-9	0.100	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1/ 206-397-9	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 16, 2013							
145	Cadmium sulphide*	1306-23-6/ 215-147-8	0.010	146	Diethyl phthalate	84-75-3/ 201-559-5	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
147	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	0.100	148	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	0.100
149	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7/ 202-506-9	0.100	150	Lead di(acetate)*	301-04-2/ 206-104-4	0.010
151	Trixylyl phosphate	25155-23-1/ 246-677-8	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 16, 2014							
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4/ 271-093-5	0.100	153	Cadmium chloride*	10108-64-2/ 233-296-7	0.010
154	Sodium perborate; perboric acid, sodium salt*	-	0.010	155	Sodium peroxometaborate*	7632-04-4/ 231-556-4	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2014							
156	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7 / 223-346-6	0.100	157	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1 / 247-384-8	0.100
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1 / 239-622-4	0.100	159	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	-	0.100
160	Cadmium fluoride*	7790-79-6 / 232-222-0	0.010	161	Cadmium sulphate*	10124-36-4; 31119-53-6 / 233-331-6	0.010
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun15, 2015							
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters or mixed decyl and hexyl and octyl diesters	-	0.100	163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	-	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Dec 17, 2015,							
164	1,3-propanesultone	1120-71-4 / 214-317-9	0.100	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1 / 223-383-8	0.100

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166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3 / 253-037-1	0.100	167	Nitrobenzene	98-95-3 / 202-716-0	0.100
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts (PFNA)	-	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 20, 2016							
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8 / 200-028-5	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 12, 2017							
170	4,4'-Isopropylidenediphenol (Bisphenol A)	80-05-7 / 201-245-8	0.100	171	4-Heptylphenol, branched and linear	-	0.100
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salt	-	0.100	173	p-(1,1-dimethylpropyl)phenol	80-46-6 / 201-280-9	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 7, 2017							
174	Perfluorohexane-1-sulphonic acid and its salts	-	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2018							
175	Benz[a]anthracene	56-55-3; 1718-53-2 / 200-280-6	0.100	176	Cadmium carbonate*	513-78-0 / 208-168-9	0.010
177	Cadmium hydroxide*	21041-95-2 / 244-168-5	0.010	178	Cadmium nitrate*	10325-94-7 / 233-710-6	0.010
179	Chrysene	218-01-9; 1719-03-5 / 205-923-4	0.100	180	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo [12.2.1.1.16,9.02,13.05,10] octadeca-7,15-diene ("Dechlorane Plus"™)	-	0.100
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)	-	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 27, 2018							
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (TMA)	552-30-7 / 209-008-0	0.100	183	Benzo[ghi]perylene	191-24-2 / 205-883-8	0.100
184	Decamethylcyclopentasiloxane (D5)	541-02-6 / 208-764-9	0.100	185	Dicyclohexyl phthalate (DCHP)	84-61-7 / 201-545-9	0.100
186	Disodium octaborate*	12008-41-2 / 234-541-0	0.010	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6 / 208-762-8	0.100
188	Ethylenediamine (EDA)	107-15-3 / 203-468-6	0.100	189	Lead	7439-92-1 / 231-100-4	0.010
190	Octamethylcyclotetrasiloxane (D4)	556-67-2 / 209-136-7	0.100	191	Terphenyl, hydrogenated	61788-32-7 / 262-967-7	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 15, 2019							
192	2,2-Bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6 / 401-720-1	0.100	193	Benzo[k]fluoranthene	207-08-9 / 205-916-6	0.100
194	Fluoranthene	206-44-0 / 205-912-4	0.100	195	Phenanthrene	85-01-8 / 201-581-5	0.100
196	Pyrene	129-00-0 / 204-927-3	0.100	197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8 / 239-139-9	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 16, 2019							
198	2,3,3,3-Tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides	-	0.100	199	2-Methoxyethyl acetate	110-49-6 / 203-772-9	0.100
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	-	0.100	201	4-tert-butylphenol	98-54-4 / 202-679-0	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 16, 2020							
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1 / 404-360-3	0.100	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5 / 400-600-6	0.100
204	Diisohexyl phthalate	71850-09-4 / 276-090-2	0.100	205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 25, 2020							
206	1-Vinylimidazole	1072-63-5 / 214-012-0	0.100	207	2-Methylimidazole	693-98-1 / 211-765-7	0.100
208	Butyl 4-hydroxybenzoate	94-26-8 / 202-318-7	0.100	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4 / 245-152-0	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 19, 2021							
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8 / 205-594-7	0.100	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	-	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jul 8, 2021							
212	1,4-dioxane	123-91-1 / 204-661-8	0.100	213	2,2-bis(bromomethyl)propane-1,3-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)	-	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	0.100	215	4,4'-(1-methylpropylidene)bisphenol	77-40-7 / 201-025-1	0.100
216	Glutaral	111-30-8 / 203-856-5	0.100	217	Medium-chain chlorinated paraffins (MCCP)	-	0.100
218	Orthoboric acid, sodium salt*	-	0.010	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	-	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 17, 2022							
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	0.100	221	6,6'-di-tert-butyl-2,2'-methylenedip-cresol (DBMC)	119-47-1 / 204-327-1	0.100
222	S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8 / 401-850-9	0.100	223	tris(2-methoxyethoxy)vinylsilane	1067-53-4 / 213-934-0	0.100
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 10, 2022							
224	N-(hydroxymethyl)acrylamide	924-42-5 / 213-103-2	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jan 17, 2023							
225	1,1'-[ethane-1,2-diylbisoxyl]bis[2,4,6-tribromobenzene]	37853-59-1/ 253-692-3	0.100	226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7 / 201-236-9	0.100
227	4,4'-sulphonyldiphenol	80-09-10/ 201-250-5	0.100	228	Barium diboron tetraoxide*	13701-59-2/ 237-222-4	0.010
229	Bis(2-ethylhexyl) tetrabromophthalate	-	0.100	230	Isobutyl 4-hydroxybenzoate	4247-02-3 / 224-208-8	0.100
231	Melamine	108-78-1 / 203-615-4	0.100	232	Perfluoroheptanoic acid and its salts	-	0.100
233	Reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine (FC-770)*	- / 473-390-7	0.100				
Candidate List of Substances of Very High Concern (SVHC) for authorization published on Jun 14, 2023							
234	bis(4-chlorophenyl) sulphone	80-07-9 / 201-247-9	0.100	235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8 / 278-355-8	0.100

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No.	Substance Name	CAS No./ EC No.	RL (%)	No.	Substance Name	CAS No./ EC No.	RL (%)
Consultation List of Substances of Very High Concern (SVHC) for authorization published on Sep 1, 2023							
1	2,4,6-tri-tert-butylphenol (2,4,6-TTBP)	732-26-3/ 211-989-5	0.010	2	2-(2H-benzotriazol-2-yl)-4- (1,1,3,3-tetramethylbutyl)phenol (UV-329)	3147-75-9/ 221-573-5	0.010
3	2-(dimethylamino)-2-[(4- methylphenyl)methyl]-1-[4- (morpholin-4-yl)phenyl]butan-1- one	119344-86-4/ 438-340-0	0.010	4	Bumetizole (UV-326)	3896-11-5/ 223-445-4	0.010
5	Dibutyl phthalate (DBP)	84-74-2/ 201-557-4	0.010	6	Oligomerization and alkylation reaction products of 2- phenylpropene and phenol (OAPP)	-/ 700-960-7	0.010

Notes

1. RL = Reporting Limit. All RL are based on homogenous material
2. * The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario.

The client is advised to review the chemical formulation to ascertain above metal substances present in the article.

RL = 0.01% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, titanium, barium and cadmium respectively), except molybdenum RL=0.001%, boron RL=0.005% (only for Lead bis(tetrafluoroborate)), chromium (VI) RL=0.005% (only for Pentazinc chromate octahydroxide).