

# TEST REPORT

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Applicant : JINHUA SONIN HARDWARE PRODUCTS CO., LTD  
Address : 1FOLLORS, BUILDING ONE, INDUSTRIAL AREAS, CAOZHAI TOWN,  
JINDONG DISTRICT, JINHUA CITY, ZHEJIANG PROVINCE, CHINA

Below information submitted by the applicant:

Product Name : water bottle  
Model : L1480AE22, 26402 02  
15432,19415 09,20428,19416 01,19416 02,19416 03,19416 04,  
19416 06,19416 08,19416 09,19416 10,19416 12,19416 44,  
L9663AH01,19425 01,19425 03,19425 09,19425 10,20441 01,  
20441 01S,20441 02,20441 03,20441 09,20441 10,20450,21412.44,  
21412.27,21412.06,21412 07,21413.24,L43359AA44,21411 01,  
Model may cover : 21411 02,21411 03,21411 09,21411 10,21411 04,21411.55,21411 01S,  
23419 01,23419 02,22421 01,22421 01S,22421 02,22421 03,22421 04,  
22421 10,22421 64,22421 09,L1480AE22,L1480AE04,L1480AE12,  
L1480AE08,L9663AE15,L9663AF22,L41964AL05,L41964AM05,  
26402 64,26402 05,26402 22,26402 02,L9196AA24,19416 05,  
L26646AA22, 26437 01,26437 02,26437 05,26437 37

Reference info. : /  
Manufacturer info. : /  
Supplier info. : /  
Buyer info. : /  
Country of Destination : /  
Country of Origin : China

Sample Received : 07.07, 2025  
Test Period : 07.07, 2025 - 07.11, 2025  
Test Requirement : Refer to next pages  
Test Method : Refer to next pages  
Test Result : Refer to next pages  
Test Conclusion : Refer to next pages

Revised report, instead of 8621.SHJ1.2507.02042R1, 2025-09-17

Signed for and on behalf of  
Jordan Wang, General Manager  
BU Chemical Compliance  
TUV THURINGEN (SHANGHAI) CO., LTD.  
Location: Shanghai

## TÜV THÜRINGEN CHINA

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VERSION: 2023.09.01

## TEST RESULTS

As requested by the client, test items as below:

Test Items	Verdict
<p>1. As requested by the client, according to General Requirement (Article 3) in EU Regulation No. 1935/2004, Commission Regulation (EU) No 10/2011 and its subsequent amendment Regulation EU No.321/2011, No.1282/2011, No.1183/2012, No.202/2014, No.865/2014, No. 2015/174, No.2016/1416, No.2017/752, No.2018/79, No.2019/37, No.2020/1245, No.2023/1442, No.2023/1627, No.2024/3190 on plastic materials and articles intended to come into contact with foodstuffs, the decree of the Minister of Health 21 March 1973, containing: "Hygienic regulation of packaging, containers, utensils intended to come into contact with the substances food or substances for personal use " considering 30 April 1962, n. 283, concerning the hygienic discipline of the production and sale of the food and beverage substances, D.Lgs. No. 108 del 25 January 1992, Decree No.140 del 11 November 2013 updating Decree No. 258 del 21 December 2010 till consolidated vision to 2020.09 (D.M. 21 marzo 1973 MOCA IT Consolidato Ed3.0), and Technical Guide on Metals and EDQM 2nd edition 2024, metals and alloys used in food contact materials and articles, test items as below:</p> <ul style="list-style-type: none"> <li>- sensorial examination odor and taste for whole product</li> <li>- Leachable heavy metal and composition analysis for metal materials</li> <li>- Overall migration; specific migration of primary aromatic amine; soluble heavy metal; Volatile organic substances; Residual catalyst; Remaining peroxides and organotin compounds; specific migration of organotin (as Tin) for silicone materials</li> <li>- Overall migration test; specific migration of primary aromatic amines; soluble heavy metals; total lead and cadmium content; peroxide value; specific migration of bisphenol A (BPA); specific migration of softeners and phthalates; catalyst residue content; color release for PP plastics</li> <li>- Bisphenol A content for all polymer materials</li> <li>- PAHs content in acc. to AfPS GS 2019:01</li> </ul>	PASS
<p>2. According to European Commission Regulation 1907/2006 (concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC), to test the SVHC content which have been listed in ECHA's SVHC candidate list till June 25, 2025 <a href="http://echa.europa.eu/web/guest/candidate-list-table">http://echa.europa.eu/web/guest/candidate-list-table</a></p> <ul style="list-style-type: none"> <li>- REACH 250 SVHC content in candidate list till 2025.06.25, less than 0.1%</li> </ul>	PASS



### TESTS CARRIED BY:

LAB ID: TTSLCM005; ADD.: 2/F., BUILDING D-1, NO.128, SHENFU ROAD, MINHANG DISTRICT, SHANGHAI, CHINA

## SAMPLE DESCRIPTION

Sample description	:	1#. Silvery stainless steel container
		2#. Semi-transparent silicone
		3#. Silvery metal lid
		4#. Black Plastic Stopper
		5#. Silvery stainless steel container
		6#. Whole product (including 1#, 2#, 3#, 4#, 5#)

## TEST RESULTS

### 1. Food contact material safety requirements

#### 1.1. Sensorial examination odor and taste test

Test Method: sensory test with reference to DIN 10955:2024

Test Items	Test Results	Permissible Limit
	Whole product	
Test Media	Distilled water	---

Test Items	Test Results	Permissible Limit
	Whole product	
Temperature, °C	100.0	---
Contact Time, hour	4.0	---
Sensorial examination odor	0	2.5, max
Sensorial examination taste	0	2.5, max
Comment(s)	PASS	---

Scale evaluation:

- 0: No perceptible odor
- 1: Odor just perceptible (still difficult to define)
- 2: Moderate odor
- 3: Moderately strong odor
- 4: Strong odor

## 1.2. Special requirements for Metals

### 1.2.1. Specific release heavy metals – CM/Res(2020)9, EDQM 2<sup>nd</sup> edition 2024, metals and alloys used in food contact materials and articles

**Test method:** Sample prepared with reference to Technical Guide on Metals and Alloys used in food contact materials and articles of CM/Res(2020)9 and EDQM 2<sup>nd</sup> edition 2024, metals and alloys used in food contact materials and articles by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Inductively Coupled Plasma Optical Emission Spectrometer with Mass Detector (ICP-MS) analysis.

**Test Condition:** 100.0°C/4.0hours with 0.5% citric acid (5g/L)

Extractable Elements	MDL	Test Results			7*Limit	Unit	mg/kg
		1 <sup>st</sup> Result	2 <sup>nd</sup> Result	1 <sup>st</sup> + 2 <sup>nd</sup> Result		3 <sup>rd</sup> Result	Limit
		1#+3#+5#	1#+3#+5#	1#+3#+5#		1#+3#+5#	
Aluminum, Al	0.01	n.d.	n.d.	n.d.	35	n.d.	5
Antimony, Sb	0.01	n.d.	n.d.	n.d.	0.28	n.d.	0.04
Chromium, Cr	0.01	n.d.	n.d.	n.d.	7	n.d.	1
Cobalt, Co	0.01	n.d.	n.d.	n.d.	0.14	n.d.	0.02
Copper, Cu	0.01	n.d.	n.d.	n.d.	28	n.d.	4
Iron, Fe	0.01	n.d.	n.d.	n.d.	280	n.d.	40
Magnesium, Mg	0.01	n.d.	n.d.	n.d.	---	n.d.	---
Manganese, Mn	0.01	n.d.	n.d.	n.d.	3.85	n.d.	0.55
Molybdenum, Mo	0.01	n.d.	n.d.	n.d.	0.84	n.d.	0.12
Nickel, Ni	0.01	n.d.	n.d.	n.d.	0.98	n.d.	0.14
Silver, Ag	0.01	n.d.	n.d.	n.d.	0.56	n.d.	0.08
Tin, Sn	0.01	n.d.	n.d.	n.d.	700	n.d.	100
Titanium, Ti	0.01	n.d.	n.d.	n.d.	---	n.d.	---
Vanadium, V	0.01	n.d.	n.d.	n.d.	0.07	n.d.	0.01
Zinc, Zn	0.01	n.d.	n.d.	n.d.	35	n.d.	5
Zirconium, Zr	0.01	n.d.	n.d.	n.d.	14	n.d.	2
Arsenic, As	0.001	n.d.	n.d.	n.d.	0.014	n.d.	0.002

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Extractable Elements	MDL	1 <sup>st</sup> Result	2 <sup>nd</sup> Result	1 <sup>st</sup> + 2 <sup>nd</sup> Result	7*Limit	Unit	mg/kg
		1#+3#+5#	1#+3#+5#	1#+3#+5#		3 <sup>rd</sup> Result	Limit
		1#+3#+5#	1#+3#+5#	1#+3#+5#		1#+3#+5#	
Barium, Ba	0.01	n.d.	n.d.	n.d.	8.4	n.d.	1.2
Beryllium, Be	0.01	n.d.	n.d.	n.d.	0.07	n.d.	0.01
Cadmium, Cd	0.001	n.d.	n.d.	n.d.	0.035	n.d.	0.005
Lead, Pb	0.001	n.d.	n.d.	n.d.	0.07	n.d.	0.010
Lithium, Li	0.01	n.d.	n.d.	n.d.	0.336	n.d.	0.048
Mercury, Hg	0.001	n.d.	n.d.	n.d.	0.021	n.d.	0.003
Thallium, Tl	0.0001	n.d.	n.d.	n.d.	0.007	n.d.	0.001

Note: The submitted sample/component is a repeated use article. The migration test was carried out three times on the same article. The sum of the results of the first and second tests should not exceed seven times the limit (Result 1<sup>st</sup> test + Result 2<sup>nd</sup> test <7\* limit) and the Result 3<sup>rd</sup> should not exceed the limit.

## 1.2.2. Metal Composition

**Test method:** acid digestion, followed by analyzed using Inductively Coupled Argon Plasma Spectrometry C and S elements, directed tested via C/S detector



Test Parameter	Units	MDL	Test Results		Permissible Limit	
			1#+3#+5#		1.4319	1.4301
C content	%	0.005	0.023		≤0.15	≤0.07
Si content	%	0.005	0.59		≤1.00	≤1.00
Mn content	%	0.05	0.58		≤2.00	≤2.00
P content	%	0.005	0.015		≤0.065	≤0.035
S content	%	0.005	0.014		≤0.030	≤0.030
Cr content	%	0.05	18.31		16.0~18.0	17.0~19.0
Ni content	%	0.05	8.22		6.0~8.0	8.0~10.5

## 1.3. Special requirements for polymer materials

### 1.3.1. Overall migration test

**Test method:**

EN 1186-1:2002 guide to the selection of conditions and test methods for overall migration

EN 1186-3:2022 Materials and articles in contact with foodstuffs - Plastics - Part 3: Test methods for overall migration in evaporable simulants

Ratio of surface area/volume = 6dm<sup>2</sup>/1L

Test Parameter	Units	MDL	Test Results		Permissible Limit
			2#	4#	
Test Media			3% acetic acid		---
Temperature, °C			100.0	100.0	---
Contact Time, hour			4.0	4.0	---
1 <sup>st</sup> , Overall migration test	mg/dm <sup>2</sup>	3.0	6.9	3.3	---
2 <sup>nd</sup> , Overall migration test	mg/dm <sup>2</sup>	3.0	4.6	n.d.	---

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Test Parameter	Units	MDL	Test Results		Permissible Limit
			2#	4#	
3 <sup>rd</sup> , Overall migration test	mg/dm <sup>2</sup>	3.0	3.5	n.d.	10, max
Comment(s)	---	---	PASS	PASS	---

Test Parameter	Units	MDL	Test Results		Permissible Limit
			2#	4#	
Test Media			10% Ethanol		---
Temperature, °C			100.0	100.0	---
Contact Time, hour			4.0	4.0	---
1 <sup>st</sup> , Overall migration test	mg/dm <sup>2</sup>	3.0	6.9	3.3	---
2 <sup>nd</sup> , Overall migration test	mg/dm <sup>2</sup>	3.0	4.6	n.d.	---
3 <sup>rd</sup> , Overall migration test	mg/dm <sup>2</sup>	3.0	3.5	n.d.	10, max
Comment(s)	---	---	PASS	PASS	---

### 1.3.2. Specific migration of heavy metal

**Test Method:** with reference to EN 13130-1:2004, followed by analysis using ICP-OES, ICP-MS, IC, UV-Vis

Test Parameter	Units	MDL	Test Results			Permissible Limit
			2#, 1 <sup>st</sup>	2#, 2 <sup>nd</sup>	2#, 3 <sup>rd</sup>	
Test Media			3% acetic acid			---
Temperature, °C			100.0	100.0	100.0	---
Contact Time, hour			4.0	4.0	4.0	---
Soluble Aluminum, Al	mg/kg	0.1	n.d.	n.d.	n.d.	≤1.0
Soluble Ammonium, NH <sub>4</sub>	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Antimony, Sb	mg/kg	0.01	n.d.	n.d.	n.d.	≤0.04
Soluble Arsenic, As	mg/kg	0.01	n.d.	n.d.	n.d.	ND
Soluble Barium, Ba	mg/kg	0.25	n.d.	n.d.	n.d.	≤1.0
Soluble Cadmium, Cd	mg/kg	0.002	n.d.	n.d.	n.d.	ND (LOD 0.002)
Soluble Calcium, Ca	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Chromium, Cr	mg/kg	0.01	n.d.	n.d.	n.d.	ND
Soluble Cobalt, Co	mg/kg	0.01	n.d.	n.d.	n.d.	≤0.05
Soluble Copper, Cu	mg/kg	0.25	n.d.	n.d.	n.d.	≤5.0
Soluble Iron, Fe	mg/kg	5.0	n.d.	n.d.	n.d.	≤48
Soluble Lead, Pb	mg/kg	0.01	n.d.	n.d.	n.d.	ND
Soluble Lithium, Li	mg/kg	0.1	n.d.	n.d.	n.d.	≤0.6
Soluble Magnesium, Mg	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Manganese, Mn	mg/kg	0.1	n.d.	n.d.	n.d.	≤0.6
Soluble Mercury, Hg	mg/kg	0.01	n.d.	n.d.	n.d.	ND

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Test Parameter	Units	MDL	Test Results			Permissible Limit
			2#, 1 <sup>st</sup>	2#, 2 <sup>nd</sup>	2#, 3 <sup>rd</sup>	
Soluble Nickel, Ni	mg/kg	0.01	n.d.	n.d.	n.d.	≤0.02
Soluble Potassium, K	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Sodium, Na	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Zinc, Zn	mg/kg	0.5	n.d.	n.d.	n.d.	≤5.0
Soluble Europium, Eu	mg/kg	0.025	n.d.	n.d.	n.d.	Sum of Eu, Gd, La, Tb, ≤0.05
Soluble Gadolinium, Gd	mg/kg	0.025	n.d.	n.d.	n.d.	
Soluble Lanthanum, La	mg/kg	0.025	n.d.	n.d.	n.d.	
Soluble Terbium, Tb	mg/kg	0.025	n.d.	n.d.	n.d.	
Comment(s)	---	---	PASS	PASS	PASS	---

Test Parameter	Units	MDL	Test Results			Permissible Limit
			4#, 1 <sup>st</sup>	4#, 2 <sup>nd</sup>	4#, 3 <sup>rd</sup>	
Test Media	3% acetic acid					---
Temperature, °C			100.0	100.0	100.0	---
Contact Time, hour			4.0	4.0	4.0	---
Soluble Aluminum, Al	mg/kg	0.1	n.d.	n.d.	n.d.	≤1.0
Soluble Ammonium, NH <sub>4</sub>	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Antimony, Sb	mg/kg	0.01	n.d.	n.d.	n.d.	≤0.04
Soluble Arsenic, As	mg/kg	0.01	n.d.	n.d.	n.d.	ND
Soluble Barium, Ba	mg/kg	0.25	n.d.	n.d.	n.d.	≤1.0
Soluble Cadmium, Cd	mg/kg	0.002	n.d.	n.d.	n.d.	ND (LOD 0.002)
Soluble Calcium, Ca	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Chromium, Cr	mg/kg	0.01	n.d.	n.d.	n.d.	ND
Soluble Cobalt, Co	mg/kg	0.01	n.d.	n.d.	n.d.	≤0.05
Soluble Copper, Cu	mg/kg	0.25	n.d.	n.d.	n.d.	≤5.0
Soluble Iron, Fe	mg/kg	5.0	n.d.	n.d.	n.d.	≤48
Soluble Lead, Pb	mg/kg	0.01	n.d.	n.d.	n.d.	ND
Soluble Lithium, Li	mg/kg	0.1	n.d.	n.d.	n.d.	≤0.6
Soluble Magnesium, Mg	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Manganese, Mn	mg/kg	0.1	n.d.	n.d.	n.d.	≤0.6
Soluble Mercury, Hg	mg/kg	0.01	n.d.	n.d.	n.d.	ND
Soluble Nickel, Ni	mg/kg	0.01	n.d.	n.d.	n.d.	≤0.02
Soluble Potassium, K	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Sodium, Na	mg/kg	0.1	n.d.	n.d.	n.d.	---
Soluble Zinc, Zn	mg/kg	0.5	n.d.	n.d.	n.d.	≤5.0

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Test Parameter	Units	MDL	Test Results			Permissible Limit
			4#, 1 <sup>st</sup>	4#, 2 <sup>nd</sup>	4#, 3 <sup>rd</sup>	
Soluble Europium, Eu	mg/kg	0.025	n.d.	n.d.	n.d.	Sum of Eu, Gd, La, Tb, ≤0.05
Soluble Gadolinium, Gd	mg/kg	0.025	n.d.	n.d.	n.d.	
Soluble Lanthanum, La	mg/kg	0.025	n.d.	n.d.	n.d.	
Soluble Terbium, Tb	mg/kg	0.025	n.d.	n.d.	n.d.	
Comment(s)	---	---	PASS	PASS	PASS	---

### 1.3.3. Specific migration test of primary aromatic amine

**Test method:** Sample preparation with reference to EN 13130-1:2004, followed by analysis with reference to DIN 55610:1986, via LCMSMS

Test Parameter	Units	MDL	Test Results			Permissible Limit
			2#, 1 <sup>st</sup>	2#, 2 <sup>nd</sup>	2#, 3 <sup>rd</sup>	
Test Media			3% acetic acid			---
Temperature, °C			100.0	100.0	100.0	---
Contact Time, hour			4.0	4.0	4.0	---
Specific migration of 4-aminobiphenyl / 4-biphenylamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of o-anisidine / 2-methoxyaniline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of Benzidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4-Chloro-aniline / p-chloroaniline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4-Chloro-o-toluidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-Diaminodiphenylether / 4,4'-oxydianiline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-Methylenedianiline / 4,4'-diamino-diphenylmethane	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-Methylenedi-o-toluidine / 3,3'-dimethyl-4,4'-diaminodiphenylmethane	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2-Methoxy-5-methylaniline / p-cresidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4-Methoxy-mphenylenediamine/ 2,4-diaminoanisole	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of o-Toluidine / 2-aminotoluene	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,4-Toluenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 3,3-Dimethylbenzidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,4,5-Trimethylaniline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002

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Test Parameter	Units	MDL	Test Results			Permissible Limit
			2#, 1 <sup>st</sup>	2#, 2 <sup>nd</sup>	2#, 3 <sup>rd</sup>	
Specific migration of m-Phenylenediamine / 1,3-Phenylenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2-naphthylamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of o-aminoazotoluene/ 4-amino-2',3'-dimethylazobenzene/ 4-otolylazo-o-toluidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 5-nitro-o-toluidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 3,3'-dichlorobenzidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 3,3'-dimethoxybenzidine / odianisidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-methylene-bis-(2-chloroaniline) / 2,2'-dichloro-4,4'-methylene-dianiline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-thiodianiline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4-amino azobenzene	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of Aniline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,4-dimethylaniline/2,4-xylylidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,6-dimethylaniline/ 2,6-xylylidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of m-phenylenediamine/ 1,3-phenylenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of p-phenylenediamine/ 1,4-phenylenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,6-toluenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 1,5-diaminenaphthalene	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of primary aromatic amine	mg/kg	0.01	n.d.	n.d.	n.d.	≤0.01
Comment(s)	---	---	PASS	PASS	PASS	---

Test Parameter	Units	MDL	Test Results			Permissible Limit
			4#, 1 <sup>st</sup>	4#, 2 <sup>nd</sup>	4#, 3 <sup>rd</sup>	
Test Media			3% acetic acid			---
Temperature, °C			100.0	100.0	100.0	---
Contact Time, hour			4.0	4.0	4.0	---
Specific migration of 4-aminobiphenyl / 4-biphenylamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002

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Test Parameter	Units	MDL	Test Results			Permissible Limit
			4#, 1 <sup>st</sup>	4#, 2 <sup>nd</sup>	4#, 3 <sup>rd</sup>	
Specific migration of o-anisidine / 2-methoxyaniline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of Benzidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4-Chloro-aniline / p-chloroaniline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4-Chloro-o-toluidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-Diaminodiphenylether / 4,4'-oxydianiline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-Methylenedianiline / 4,4'-diamino-diphenylmethane	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-Methylenedi-o-toluidine /3,3'-dimethyl-4,4'-diaminodiphenylmethane	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2-Methoxy-5-methylaniline / p-cresidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4-Methoxy-mphenylenediamine/ 2,4-diaminoanisole	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of o-Toluidine / 2-aminotoluene	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,4-Toluenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 3,3-Dimethylbenzidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,4,5-Trimethylaniline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of m-Phenylenediamine / 1,3-Phenylenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2-naphthylamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of o-aminoazotoluene/ 4-amino-2',3-dimethylazobenzene/ 4-otolyazo-o-toluidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 5-nitro-o-toluidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 3,3'-dichlorobenzidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 3,3'-dimethoxybenzidine / odianisidine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-methylene-bis-(2-chloroaniline) / 2,2'-dichloro-4,4'-methylene-dianiline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 4,4'-thiodianiline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002

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Test Parameter	Units	MDL	Test Results			Permissible Limit
			4#, 1 <sup>st</sup>	4#, 2 <sup>nd</sup>	4#, 3 <sup>rd</sup>	
Specific migration of 4-amino azobenzene	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of Aniline	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,4-dimethylaniline/2,4-xylydine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,6-dimethylaniline/ 2,6-xylydine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of m-phenylenediamine/ 1,3-phenylenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of p-phenylenediamine/ 1,4-phenylenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 2,6-toluenediamine	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of 1,5-diaminenaphthalene	mg/kg	0.002	n.d.	n.d.	n.d.	≤0.002
Specific migration of primary aromatic amine	mg/kg	0.01	n.d.	n.d.	n.d.	≤0.01
Comment(s)	---	---	PASS	PASS	PASS	---

### 1.3.4. Specific Migration of Bisphenol A

**Test Method:** sample preparation with reference to EN 13130-1:2004, analysis by GC/MS

Test Parameter	Units	MDL	Test Results			Permissible Limit
			4#, 1 <sup>st</sup>	4#, 2 <sup>nd</sup>	4#, 3 <sup>rd</sup>	
Test Media			3% acetic acid			---
Temperature, °C			100.0	100.0	100.0	---
Contact Time, hour			4.0	4.0	4.0	---
Specific migration of Bisphenol A	mg/kg	0.05	n.d.	n.d.	n.d.	<0.05
Comment(s)	---	---	PASS	PASS	PASS	---

### 1.3.5. Specific migration of softeners and phthalates

**Test Method:** Sample preparation with reference to EN 13130-1:2004, followed by analysis with GC/MS

Test Parameter	Units	MDL	Test Results			Permissible Limit
			4#, 1 <sup>st</sup>	4#, 2 <sup>nd</sup>	4#, 3 <sup>rd</sup>	
Test Media			3% acetic acid			---
Temperature, °C			100.0	100.0	100.0	---
Contact Time, hour			4.0	4.0	4.0	---
Specific migration of phthalic acid, bis (2-ethylhexyl) ester ('DEHP')	mg/kg	0.05	n.d.	n.d.	n.d.	≤0.6
Specific migration of phthalic acid, dibutyl ester ('DBP')	mg/kg	0.05	n.d.	n.d.	n.d.	≤0.12

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Test Parameter	Units	MDL	Test Results			Permissible Limit
			4#, 1 <sup>st</sup>	4#, 2 <sup>nd</sup>	4#, 3 <sup>rd</sup>	
Specific migration of phthalic acid, benzyl butyl ester ('BBP')	mg/kg	0.05	n.d.	n.d.	n.d.	≤6
Specific migration of phthalic acid, diesters with primary, saturated C <sub>8</sub> -C <sub>10</sub> branched alcohols, more than 60% C <sub>9</sub> ('DINP')	mg/kg	0.05	n.d.	n.d.	n.d.	Not detected
Specific migration of DIDP	mg/kg	0.05	n.d.	n.d.	n.d.	≤9
Specific migration of DEHT	mg/kg	0.05	n.d.	n.d.	n.d.	≤60
Specific migration of DEHA	mg/kg	0.05	n.d.	n.d.	n.d.	≤18
Specific migration of other phthalates and softeners	mg/kg	0.05	n.d.	n.d.	n.d.	≤0.05
Comment(s)	---	---	PASS	PASS	PASS	---
Comment(s)	---	---	PASS	PASS	PASS	---

### 1.3.6. Total Lead and Cadmium Content

**Test Method:** with reference to EN 1122, analysis was performed by ICP-OES/ AAS.

Test Parameter	Units	MDL	Test Results		Permissible Limit
			4#		
Total Lead Content	mg/kg	2	n.d.		40, max
Total Cadmium Content	mg/kg	2	n.d.		20, max

### 1.3.7. Peroxide Value

**Test Method:** with reference to European Pharmacopeia 5.0, Ph.Eur. Method 2.5.5

Test Parameter	Units	MDL	Test Results		Permissible Limit
			4#		
Peroxide value	---	---	Neg.		Negative

### 1.3.8. Special requirements for Silicone materials

#### 1.3.8.1. Organotin content (Monobutyltin, MBT; Dibutyltin, DBT; Tributyltin, TBT; Tetrabutyltin, TTBT; Mono-octyltin, MOT; Dioctyltin, DOT; Tricyclohexyltin, TcyT)

**Test Method:** Solvent extraction followed by analysis using Gas Chromatography Spectrometer.

Test Parameter	Units	MDL	Test Results		Permissible Limit
			2#		
Monobutyltin, MBT	mg/kg	0.10	n.d.		1.0, max
Dibutyltin, DBT	mg/kg	0.01	n.d.		0.05, max
Tributyltin, TBT	mg/kg	0.01	n.d.		0.05, max
Tetrabutyltin, TeBT	mg/kg	0.01	n.d.		Sum of MBT, DBT, TBT, TTBT, MOT, DOT, TcyT: 2.5, max
Mono-octyltin, MOT	mg/kg	0.01	n.d.		
Dioctyltin, DOT	mg/kg	0.01	n.d.		
Tricyclohexyltin, TcyT	mg/kg	0.01	n.d.		

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Test Parameter	Units	MDL	Test Results	Permissible Limit
			2#	
Methyltin, MeT	mg/kg	0.01	n.d.	
Tripropylin, TPT	mg/kg	0.01	n.d.	
Dimethyltin, DMT	mg/kg	0.10	n.d.	

### 1.3.8.2. Peroxide value

**Test Method:** with reference to European Pharmacopoeia, 2005 Appendix XF, Peroxide Value method A

Test Parameter	Units	MDL	Test Results	Permissible Limit
			2#	
Peroxide value	---	---	Neg.	Negative

### 1.3.8.3. Volatile organic matter (VOM)

**Test Method:** with reference to <https://www.bfr.bund.de/cm/343/bestimmung-von-fluechtigen-verbindungen-in-bedarfsgegenstaenden-aus-silikon.pdf>; articles that do not withstand thermal testing according to the above method shall be tested according to the temperature/time conditions specified in Table 3 in Annex V of Regulation (EU) No 10/2011. Sample conditioning is to be carried out according to the method specified in the 61st Communication of Bundesgesundheitsblatt 46 (2003) 362. This applies to composite materials or articles with plastic or textiles such as conveyor belts, coated textiles or two-component injection molded parts for seals.

**Test Condition:** 4hours at 200°C

Test Parameter	Units	MDL	Test Results	Permissible Limit
			2#	
Volatile organic matter	%	0.01	0.41	0.5, max

### 1.3.8.4. Remaining Catalyst residue

**Test Method:** acidic digestion, analyzed was performed by ICP-OES

Test Parameter	Units	MDL	Test Results	Permissible Limit
			2#	
Total Lead content	mg/kg	2.0	n.d.	40, max
Total Cadmium content	mg/kg	2.0	n.d.	20, max
Total Platinum content	mg/kg	2.0	n.d.	50, max
Comment(s)			PASS	---

### 1.3.8.5. Specific migration of organotin (as Tin)

**Test method:** with reference to EN 1313-1, analyzed by ICP-OES, ICP-MS

Test Parameter	Units	MDL	Test Results	Permissible Limit
			2#	
Test Media			3% acetic acid	---
Temperature, °C			100.0	---
Contact Time, hour			4.0	---
Specific migration of organotin (as Tin)	mg/kg	0.01	n.d.	≤0.1
Comment(s)	---	---	PASS	---

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## 1.3.9. Additional requirements for PP materials

### 1.3.9.1. Catalyst residue, Chromium, Vanadium, Zirconium and Hafnium Content

**Test Method:** with reference to EN 1122, analysis was performed by ICP-OES/ AAS

Test Parameter	Units	MDL	Test Results		Permissible Limit
			4#		
Total Chromium Content	mg/kg	2	n.d.		≤10
Total Vanadium Content	mg/kg	5	n.d.		≤20
Total Zirconium Content	mg/kg	10	n.d.		≤100
Total Hafnium Content	mg/kg	10	n.d.		≤100

### 1.3.9.2. color migration test

**Test Method:** Ministerial Decree of 21 March 1973 (Italy), Annex IV, section VI

Test Items	Test Results		Permissible Limit
	4#		
Test Media	3% acetic acid		---
Temperature, °C	100.0		---
Contact Time, hour	4.0		---
Color migration, transmission, %	>95		≥95
Comment(s)	PASS		---

Test Items	Test Results		Permissible Limit
	4#		
Test Media	Coconut oil		---
Temperature, °C	100.0		---
Contact Time, hour	4.0		---
Color migration, transmission, %	>95		≥95
Comment(s)	PASS		---

## 1.4. Bisphenol A content

**Test Method:** with reference to CEN/TS 13130-13-2005, solvent extracted, followed analyzed by GC/MS and LC/MS/MS

Test Parameter	Units	MDL	Test Results		Permissible Limit
			2#	4#	
Bisphenol A content BPA, CAS No.80-05-7	µg/kg	1.0	n.d.	n.d.	Not detected

## 1.5. PAHs content

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

Test Parameter	Units	MDL	Test Results		Permissible Limit
			2#	4#	
Naphthalene	mg/kg	0.2	n.d.	n.d.	Refer to form
Phenanthrene	mg/kg	0.2	n.d.	n.d.	Refer to form

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Test Parameter	Units	MDL	Test Results		Permissible Limit
			2#	4#	
Anthracene	mg/kg	0.2	n.d.	n.d.	Refer to form
Fluoranthene	mg/kg	0.2	n.d.	n.d.	Refer to form
Pyrene	mg/kg	0.2	n.d.	n.d.	Refer to form
Benzo[a]anthracene	mg/kg	0.2	n.d.	n.d.	Refer to form
Chrysene	mg/kg	0.2	n.d.	n.d.	Refer to form
Benzo[b]fluoranthene	mg/kg	0.2	n.d.	n.d.	Refer to form
Benzo[k]fluoranthene	mg/kg	0.2	n.d.	n.d.	Refer to form
Benzo[a]pyrene	mg/kg	0.2	n.d.	n.d.	Refer to form
Indeno[1,2,3-cd]pyrene	mg/kg	0.2	n.d.	n.d.	Refer to form
Dibenzo[a,h]anthracene	mg/kg	0.2	n.d.	n.d.	Refer to form
Benzo[g,h,i]perylene	mg/kg	0.2	n.d.	n.d.	Refer to form
Benzo[j]fluoranthene	mg/kg	0.2	n.d.	n.d.	Refer to form
Benzo[e]pyrene	mg/kg	0.2	n.d.	n.d.	Refer to form
Sum of 15 PAHs	mg/kg	---	n.d.	n.d.	Refer to form
Comment(s)	---	---	Cat.1 PASS	Cat.1 PASS	Refer to form

### LIMITS FOR PAH IN PRODUCTS according to AfPS Document GS 2019:01

Parameter	Materials, that are intended to be put into the mouth or materials in toys with intended and prolonged skin-contact (longer than 30s)	Materials, not covered by category 1, with foreseeable skin-contact of > 30 s (prolonged skin-contact) or short-term repetitive contact with the human skin		Materials, not covered by category 1 or 2, with foreseeable skin-contact of up to 30 s (short-term skin contact)	
		Toys according to Toy Directive 2009/48/EU	Other products according to Product Safety Act	Toys according to Toy Directive 2009/48/EU	Other products according to Product Safety Act
Benzo[a]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[e]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[a]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[b]fluoroanthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[j]fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[k]fluoroanthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo[g,h,i]perylene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo[a,h]anthracene	<0.2	<0.2	<0.5	<0.5	<1
Indeno[1,2,3-cd]pyrene	<0.2	<0.2	<0.5	<0.5	<1
Phenanthrene, Pyrene, Anthracene, Fluoranthene	Sum<1	Sum<5	Sum<10	Sum<20	Sum<50
Naphthalene	<1	<2	<2	<10	<10
Sum 15 PAHs	<1	<5	<10	<20	<50

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Note:

1. The products in category 2 and category 3 are divided into two groups with respective limits: toys according to directive 2009/48/EC and all other products according to ProdSG.
2. Add the requirement of repeated short term skin contact material in category 2

Note,

%, percentage; mg, milligrams; g, grams; kg, kilograms  
mg/kg = milligrams per kilograms; mg/L = milligrams per litre  
0.1% = 1000mg/kg = 1000mg/L  
< = less than; > = greater than  
MDL = method detection limit  
n.d. = not detected, < MDL  
n.a. = not applicable  
n.r. = not required  
EX = abbr. of Exempted

\*\*\*\*\* To be continued \*\*\*\*\*



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## 2. REACH SVHC in candidate lists

**Test Method:** In-house method, with reference to EPA 8270D, EPA 3052, EPA 6010C, EPA 3550C, EPA 8321B, EN14362, DIN EN ISO 17353, IEC 62321, AfPS GS 2019:01 PAK and EN 14582 etc., analyzed by GC-MS, LC, LC-MS-MS, IC, ICP-AES and UV-Vis etc..

Abbr.: MDL, means Method Detection Limit; N.D. = Not Detected, means the content is less than MDL.

Seq. Test Item(s)	Units	MDL	Results
			6#
All tested SVHC in candidate lists	---	---	N.D.

Appendix-Full list of tested SVHC and detection limit (MDL):

No.	Substance Name	EC. No.	CAS No.	MDL(%)
1	2,4-Dinitrotoluene	204-450-0	121-14-2	0.005
2	2-Ethoxyethanol	203-804-1	110-80-5	0.005
3	2-Methoxyethanol	203-713-7	109-86-4	0.005
4	4,4'- Diaminodiphenylmethane(MDA)	202-974-4	101-77-9	0.005
5	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	201-329-4	81-15-2	0.005
6	Acrylamide	201-173-7	79-06-1	0.005
7	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	287-476-5	85535-84-8	0.005
8	Aluminosilicate Refractory Ceramic Fibres***	---	---	0.005
9	Ammonium dichromate*	232-143-1	7789-09-5	0.005
10	Anthracene	204-371-1	120-12-7	0.005
11	Anthracene oil	292-602-7	90640-80-5	0.005
12	Anthracene oil, anthracene paste	292-603-2	90640-81-6	0.005
13	Anthracene oil, anthracene paste, anthracene fraction	295-275-9	91995-15-2	0.005
14	Anthracene oil, anthracene paste; distn. Lights	295-278-5	91995-17-4	0.005
15	Anthracene oil, anthracene-low	292-604-8	90640-82-7	0.005
16	Benzyl butyl phthalate(BBP)	201-622-7	85-68-7	0.005
17	Bis(2-ethylhexyl)phthalate(DEHP)	204-211-0	117-81-7	0.005
18	Bis(tributyltin)oxide(TBTO)**	200-268-0	56-35-9	0.005
19	Boric acid*	233-139-2 234-343-4	10043-35-3 11113-50-1	0.005
20	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid	231-801-5 236-881-5	7738-94-5 13530-68-2	0.005
21	Chromium trioxide*	215-607-8	1333-82-0	0.005
22	Cobalt dichloride*	231-589-4	7646-79-9	0.005
23	Cobalt(II) carbonate*	208-169-4	513-79-1	0.005
24	Cobalt(II) diacetate*	200-755-8	71-48-7	0.005
25	Cobalt(II) dinitrate*	233-402-1	10141-05-6	0.005
26	Cobalt(II) sulphate*	233-334-2	10124-43-3	0.005
27	Diarsenic pentaoxide*	215-116-9	1303-28-2	0.005

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No.	Substance Name	EC. No.	CAS No.	MDL(%)
28	Diarsenic trioxide*	215-481-4	1327-53-3	0.005
29	Dibutyl Phthalate(DBP)	201-557-4	84-74-2	0.005
30	Diisobutyl Phthalate(DIBP)	201-553-2	84-69-5	0.005
31	Disodium tetraborate, anhydrous*	215-540-4	1303-96-4 1330-43-4 12179-04-3	0.005
32	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified: Alpha-hexabromocyclododecane Beta-hexabromocyclododecane Gamma-hexabromocyclododecane	247-148-4 221-695-9	25637-99-4 3194-55-6 (134237-50-6) (134237-51-7) (134237-52-8)	0.005
33	Lead chromate*	231-846-0	7758-97-6	0.005
34	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	235-759-9	12656-85-8	0.005
35	Lead hydrogen arsenate*	232-064-2	7784-40-9	0.005
36	Lead sulfochromate yellow (C.I.Pigment Yellow 34)*	215-693-7	1344-37-2	0.005
37	Coal tar pitch, high temperature	266-028-2	65996-93-2	0.005
38	Potassium chromate*	232-140-5	7789-00-6	0.005
39	Potassium dichromate*	231-906-6	7778-50-9	0.005
40	Sodium chromate*	231-889-5	7775-11-3	0.005
41	Sodium dichromate*	234-190-3	7789-12-0 10588-01-9	0.005
42	Tetraboron disodium heptaoxide, hydrate*	235-541-3	12267-73-1	0.005
43	Trichloroethylene	201-167-4	79-01-6	0.005
44	Triethyl arsenate*	427-700-2	15606-95-8	0.005
45	Tris(2-chloroethyl)phosphate	204-118-5	115-96-8	0.005
46	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.2 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the two following conditions: a) Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> and ZrO <sub>2</sub> are present within the following concentration ranges: Al <sub>2</sub> O <sub>3</sub> : 35 – 36 % w/w, and SiO <sub>2</sub> : 47.5 – 50 % w/w, and ZrO <sub>2</sub> : 15 – 17 % w/w, b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm)***	---	---	0.005
47	2-ethoxyethyl acetate	203-839-2	111-15-9	0.005
48	Strontium chromate*	232-142-6	7789-06-2	0.005
49	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	271-084-6	68515-42-4	0.005
50	Hydrazine	206-114-9	7803-57-8 302-01-2	0.005
51	1-methyl-2-pyrrolidone	212-828-1	872-50-4	0.005

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No.	Substance Name	EC. No.	CAS No.	MDL(%)
52	1,2,3-trichloropropane	202-486-1	96-18-4	0.005
53	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich	276-158-1	71888-89-6	0.005
54	Lead dipicrate*	229-335-2	6477-64-1	0.005
55	Lead styphnate*	239-290-0	15245-44-0	0.005
56	Lead azide Lead diazide*	236-542-1	13424-46-9	0.005
57	Phenolphthalein	201-004-7	77-09-8	0.005
58	2,2'-dichloro-4,4'-methylenedianiline	202-918-9	101-14-4	0.005
59	N,N-dimethylacetamide	204-826-4	127-19-5	0.005
60	Trilead diarsenate*	222-979-5	3687-31-8	0.005
61	Calcium arsenate*	231-904-5	7778-44-1	0.005
62	Arsenic acid*	231-901-9	7778-39-4	0.005
63	Bis(2-methoxyethyl) ether	203-924-4	111-96-6	0.005
64	1,2-Dichloroethane	203-458-1	107-06-2	0.005
65	4-(1,1,3,3-tetramethylbutyl)phenol	205-426-2	140-66-9	0.005
66	2-Methoxyaniline; o-Anisidine	201-963-1	90-04-0	0.005
67	Bis(2-methoxyethyl) phthalate	204-212-6	117-82-8	0.005
68	Formaldehyde, oligomeric reaction products with aniline	500-036-1	25214-70-4	0.005
69	Pentazinc chromate octahydroxide*	256-418-0	49663-84-5	0.005
70	Potassium hydroxyoctaoxidizincatedi-chromate*	234-329-8	11103-86-9	0.005
71	Dichromium tris(chromate)*	246-356-2	24613-89-6	0.005
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	203-977-3	112-49-2	0.005
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	203-794-9	110-71-4	0.005
74	Diboron trioxide*	215-125-8	1303-86-2	0.005
75	Formamide	200-842-0	75-12-7	0.005
76	Lead(II) bis(methanesulfonate) *	401-750-5	17570-76-2	0.005
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6 (1H,3H,5H)-trione)	219-514-3	2451-62-9	0.005
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	423-400-0	59653-74-6	0.005
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	202-027-5	90-94-8	0.005
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	202-959-2	101-61-1	0.005
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] ****	208-953-6	548-62-9	0.005
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26) [with ≥ 0.1% of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] ****	219-943-6	2580-56-5	0.005

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No.	Substance Name	EC. No.	CAS No.	MDL(%)
83	$\alpha,\alpha$ -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] ****	229-851-8	6786-83-0	0.005
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol [with $\geq 0.1\%$ of Michler's ketone (EC No. 202-027-5) or Michler's base (EC No. 202-959-2)] ****	209-218-2	561-41-1	0.005
85	Bis(pentabromophenyl) ether (DecaBDE)	214-604-9	1163-19-5	0.005
86	Pentacosaflluorotridecanoic acid	276-745-2	72629-94-8	0.005
87	Tricosaflluorododecanoic acids	206-203-2	307-55-1	0.005
88	Henicosaflluoroundecanoic acid	218-165-4	2058-94-8	0.005
89	Heptacosaflluorotetradecanoic acid	206-803-4	376-06-7	0.005
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	---	---	0.005
91	4-Nonylphenol, branched and linear -substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	---	---	0.005
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	204-650-8	123-77-3	0.005
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride – HHPA)	201-604-9	85-42-7	0.005
94	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	247-094-1 243-072-0 256-356-4 260-566-1	25550-51-0 19438-60-9 48122-14-1 57110-29-9	0.005
95	Methoxy acetic acid	210-894-6	625-45-6	0.005
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	284-032-2	84777-06-0	0.005
97	Diisopentylphthalate (DIPP)	210-088-4	605-50-5	0.005
98	N-pentyl-isopentyl phthalate	---	---	0.005
99	1,2-Diethoxyethane	211-076-1	629-14-1	0.005
100	N,N-dimethylformamide; dimethyl formamide	200-679-5	68-12-2	0.005
101	Dibutyltin dichloride (DBT)	211-670-0	683-18-1	0.005
102	Acetic acid, lead salt, basic*	257-175-3	51404-69-4	0.005
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide)*	215-290-6	1319-46-6	0.005
104	Lead oxide sulfate (basic lead sulfate)*	234-853-7	12036-76-9	0.005
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate)*	273-688-5	69011-06-9	0.005
106	Dioxobis(19ricle)trilead*	235-702-8	12578-12-0	0.005
107	Fatty acids, C16-18, lead salts*	292-966-7	91031-62-8	0.005
108	Lead bis(tetrafluoroborate)*	237-486-0	13814-96-5	0.005
109	Lead cyanamidate*	244-073-9	20837-86-9	0.005
110	Lead dinitrate*	233-245-9	10099-74-8	0.005

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No.	Substance Name	EC. No.	CAS No.	MDL(%)
111	Lead oxide (lead monoxide)*	215-267-0	1317-36-8	0.005
112	Lead tetroxide (orange lead)*	215-235-6	1314-41-6	0.005
113	Lead titanium trioxide*	235-038-9	12060-00-3	0.005
114	Lead Titanium Zirconium Oxide*	235-727-4	12626-81-2	0.005
115	Pentalead tetraoxide sulphate*	235-067-7	12065-90-6	0.005
116	Pyrochlore, antimony lead yellow*	232-382-1	8012-00-8	0.005
117	Silicic acid, barium salt, lead-doped*	272-271-5	68784-75-8	0.005
118	Silicic acid, lead salt*	234-363-3	11120-22-2	0.005
119	Sulfurous acid, lead salt, dibasic*	263-467-1	62229-08-7	0.005
120	Tetraethyllead*	201-075-4	78-00-2	0.005
121	Tetralead trioxide sulphate*	235-380-9	12202-17-4	0.005
122	Trilead dioxide phosphonate*	235-252-2	12141-20-7	0.005
123	Furan	203-727-3	110-00-9	0.005
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	200-879-2	75-56-9	0.005
125	Diethyl sulphate	200-589-6	64-67-5	0.005
126	Dimethyl sulphate	201-058-1	77-78-1	0.005
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	421-150-7	143860-04-2	0.005
128	Dinoseb	201-861-7	88-85-7	0.005
129	4,4'-methylenedi-o-toluidine	212-658-8	838-88-0	0.005
130	4,4'-oxydianiline and its salts	202-977-0	101-80-4	0.005
131	4-Aminoazobenzene	200-453-6	60-09-3	0.005
132	4-methyl-m-phenylenediamine (toluene -2,4 -diamine)	202-453-1	95-80-7	0.005
133	6-methoxy-m-toluidine (p-cresidine)	204-419-1	120-71-8	0.005
134	Biphenyl-4-ylamine	202-177-1	92-67-1	0.005
135	O-aminoazotoluene	202-591-2	97-56-3	0.005
136	O-Toluidine	202-429-0	95-53-4	0.005
137	N-methylacetamide	201-182-6	79-16-3	0.005
138	1-bromopropane(n-propyl bromide)	203-445-0	106-94-5	0.005
139	Cadmium*	231-152-8	7440-43-9	0.005
140	Cadmium oxide*	215-146-2	1306-19-0	0.005
141	Ammonium pentadecafluorooctanoate(APFO)	223-320-4	3825-26-1	0.005
142	Pentadecafluorooctanoic acid(PFOA)	206-397-9	335-67-1	0.005
143	Dipentyl phthalate(DPP)	205-017-9	131-18-0	0.005
144	4-Nonylphenol, branched and linear,ethoxylated	---	---	0.005
145	Cadmium sulphide*	215-147-8	1306-23-6	0.005

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No.	Substance Name	EC. No.	CAS No.	MDL(%)
146	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	209-358-4	573-58-0	0.005
147	Disodium 4-amino-3-[[4'-[[2,4-diaminophenyl]azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	217-710-3	1937-37-7	0.005
148	Dihexyl phthalate	201-559-5	84-75-3	0.005
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	202-506-9	96-45-7	0.005
150	Lead di(acetate) *	206-104-4	301-04-2	0.005
151	Trixylyl phosphate	246-677-8	25155-23-1	0.005
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	271-093-5	68515-50-4	0.005
153	Sodium perborate; perboric acid, sodium salt *	239-172-9 234-390-0	---	0.005
154	Sodium peroxometaborate*	231-556-4	7632-04-4	0.005
155	Cadmium chloride*	233-296-7	10108-64-2	0.005
156	Cadmium fluoride*	232-222-0	7790-79-6	0.005
157	Cadmium sulphate*	233-331-6	10124-36-4 31119-53-6	0.005
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	223-346-6	3846-71-7	0.005
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	247-384-8	25973-55-1	0.005
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	239-622-4	15571-58-1	0.005
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	---	---	0.005
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyldiesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	271-094-0 272-013-1	68515-51-5 68648-93-1	0.005
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]	---	---	0.005
164	Nitrobenzene	202-716-0	98-95-3	0.005
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	223-383-8	3864-99-1	0.005
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	253-037-1	36437-37-3	0.005
167	1,3-propanesultone	214-317-9	1120-71-4	0.005
168	Perfluorononan-1-oi-c-acid and its sodium and ammonium saltspropanesultone	206-801-3	375-95-1 21049-39-8 4149-60-4	0.005
169	Benzo[a]pyrene	200-028-5	50-32-8	0.005
170	4,4'-isopropylidenediphenol (bisphenol A)	201-245-8	80-05-7	0.005
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	206-400-3 221-470-5	3108-42-7 335-76-2	0.005

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No.	Substance Name	EC. No.	CAS No.	MDL(%)
			3830-45-3	
172	4-Heptylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	---	---	0.005
173	P-(1,1-dimethylpropyl)phenol	201-280-9	80-46-6	0.005
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	---	---	0.005
175	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or any combination thereof	---	---	0.005
176	Benz[a]anthracene	200-280-6	56-55-3 1718-53-2	0.005
177	Cadmium nitrate*	233-710-6	10325-94-7, 10022-68-1	0.005
178	Cadmium carbonate*	208-168-9	513-78-0	0.005
179	Cadmium hydroxide*	244-168-5	21041-95-2	0.005
180	Chrysene	205-923-4	218-01-9, 1719-03-5	0.005
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	---	---	0.005
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	209-008-0	552-30-7	0.005
183	Dicyclohexyl phthalate (DCHP)	201-545-9	84-61-7	0.005
184	Benzo[ghi]perylene	205-883-8	191-24-2	0.005
185	Decamethylcyclopentasiloxane (D5)	208-764-9	541-02-6	0.005
186	Disodium octaborate*	234-541-0	12008-41-2	0.005
187	Dodecamethylcyclohexasiloxane (D6)	208-762-8	540-97-6	0.005
188	Ethylenediamine	203-468-6	107-15-3	0.005
189	Lead	231-100-4	7439-92-1	0.005
190	Octamethylcyclotetrasiloxane (D4)	209-136-7	556-67-2	0.005
191	Terphenyl hydrogenated	262-967-7	61788-32-7	0.005
192	Pyrene	204-927-3	129-00-0; 1718-52-1	0.005
193	Phenanthrene	201-581-5	85-01-8	0.005
194	Fluoranthene	205-912-4	206-44-0; 93951-69-0	0.005
195	Benzo[k]fluoranthene	205-916-6	207-08-9	0.005
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	401-720-1	6807-17-6	0.005
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one(3-benzylidene camphor; 3-BC)	239-139-9	15087-24-8	0.005
198	4-tert-butylphenol (PTBP)	202-679-0	98-54-4	0.005

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No.	Substance Name	EC. No.	CAS No.	MDL(%)
199	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	---	---	0.005
200	2-methoxyethyl acetate	203-772-9	110-49-6	0.005
201	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	---	---	0.005
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	404-360-3	119313-12-1	0.005
203	2-methyl-1-(4-methylthiophenyl)-2-morpholino propan-1-one	400-600-6	71868-10-5	0.005
204	Diisohexyl phthalate	276-090-2	71850-09-4	0.005
205	Perfluorobutane sulfonic acid (PFBS) and its salts	---	---	0.005
206	1-vinylimidazole	214-012-0	1072-63-5	0.005
207	2-methylimidazole	211-765-7	693-98-1	0.005
208	butyl 4-hydroxybenzoate	202-318-7	94-26-8	0.005
209	Dibutylbis(pentane-2,4-dionato-O,O')tin	245-152-0	22673-19-4	0.005
210	Bis(2-(2-methoxyethoxy)ethyl)ether (tetraglyme)	205-594-7	143-24-8	0.005
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. Wherein C12 is the predominant carbon number of the fatty acyloxy moiety	---	---	0.005
212	1,4-dioxane	204-661-8	123-91-1	0.005
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)	221-967-7; 253-057-0; 202-480-9	3296-90-0; 36483-57-5/ 1522-92-5; 96-13-9	0.005
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	---	---	0.005
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	201-025-1	77-40-7	0.005
216	Glutaral	203-856-5	111-30-8	0.005
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	---	---	0.005
218	Orthoboric acid, sodium salt*	---	---	0.005
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	---	---	0.005
220	( $\pm$ )-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)	---	---	0.005
221	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol (DBMC)	204-327-1	119-47-1	0.005
222	S-(tricyclo(5.2.1.0' <sup>2</sup> .6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	401-850-9	255881-94-8	0.005
223	Tris(2-methoxyethoxy)vinylsilane	213-934-0	1067-53-4	0.005
224	N-(hydroxymethyl)acrylamide	213-103-2	924-42-5	0.005

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No.	Substance Name	EC. No.	CAS No.	MDL(%)
225	1,1'-[ethane-1,2-diylbisoxy]bis[2,4,6-tribromobenzene]	253-692-3	37853-59-1	0.005
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (TBBPA)	201-236-9	79-94-7	0.005
227	4,4'-sulphonyldiphenol (BPS)	201-250-5	80-09-1	0.005
228	Barium diboron tetraoxide	237-222-4	13701-59-2	0.005
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	0.005
230	Isobutyl 4-hydroxybenzoate	224-208-8	4247-02-3	0.005
231	melamine	203-615-4	108-78-1	0.005
232	Perfluoroheptanoic acid and its salts	-	-	0.005
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	473-390-7	-	0.005
234	bis(4-chlorophenyl) sulphone	201-247-9	80-07-9	0.005
235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	278-355-8	75980-60-8	0.005
236	2,4,6-tri-tert-butylphenol	211-989-5	732-26-3	0.005
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol(UV-329)	221-573-5	3147-75-9	0.005
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	438-340-0	119344-86-4	0.005
239	Bumetizole(UV-326)	223-445-4	3896-11-5	0.005
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	700-960-7	-	0.005
241	Bis(α,α-dimethylbenzyl) peroxide	201-279-3	80-43-3	0.005
242	Triphenyl phosphate	204-112-2	115-86-6	0.005
243	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid	701-118-1	2156592-54-8	0.005
244	O,O,O-triphenyl phosphorothioate	209-909-9	597-82-0	0.005
245	Octamethyltrisiloxane	203-497-4	107-51-7	0.005
246	Perfluamine	206-420-2	338-83-0	0.005
247	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives	421-820-9	192268-65-8	0.005
248	1,1,1,3,5,5,5-heptamethyl-3-[(trimethylsilyl)oxy] trisiloxane	241-867-7	17928-28-8	0.005
249	Decamethyltetrasiloxane	205-491-7	141-62-8	0.005
250	tetra(sodium/potassium)7-[(E)-f2-acetamido4-[(E)-(4-[[4-chloro-6-({2-[[4-fluoro-6-f[4-(vinylsulfonyl)phenyl]aminol-1,3,5-triazine-2-yl)aminolpropyl]amino)-1,3,5-triazine-2-yl]amino)-5-sulfonato-1-naphthyl]diazanyl]-5methoxyphenyl]diazanyl1-1.3.6-naphthalenetrisulfonate; Reactive Brown 51	466-490-7	-	0.005

**Remark 1** 1) In accordance with Regulation (EC) No. 1907/2006, any 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), if both the following conditions are met:  
(a) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;

(b) the substance is present in those articles above a concentration of 0,1 % weight by weight (w/w).

**2)** From 28 October 2008, EU & EEA suppliers of articles which contain substances on the Candidate List in a concentration above 0.1% (w/w) must provide sufficient information, available to them, to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.

**3)** From 5 January 2021, duty holder supplying articles containing substances of very high concern (SVHCs) on the Candidate List in a concentration above 0.1% (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.

## Remark 2

**1)\*** Calculated concentration of cobalt dichloride, cobalt(II) sulphate, cobalt(II) dinitrate, cobalt(II) carbonate and cobalt(II) diacetate is based on the identified heavy metal and anion result. Calculated concentration of diarsenic pentaoxide, diarsenic trioxide, chromium trioxide, sodium dichromate, dehydrate, lead hydrogen arsenate, triethyl arsenate, lead chromate, sodium chromate, strontium chromate, potassium chromate, ammonium dichromate, potassium dichromate, lead chromate molybdate sulfate red, lead sulfochromate yellow and acids generated from chromium trioxide and their oligomers, Lead dipicrate, Lead styphnate, Lead azide, Lead diazide, Trilead diarsenate, Calcium arsenate, Arsenic acid, Potassium hydroxyoctaoxidizincatedi-chromate, Dichromium tris(chromate), Pentazinc chromate octahydroxide, Lead(II) bis(methanesulfonate), Diboron trioxide, Acetic acid, lead salt, basic, Basic lead carbonate (trilead bis(carbonate)dihydroxide), Lead oxide sulfate (basic lead sulfate), [Phthalato(2-)]dioxotrilead (dibasic lead phthalate), Dioxobis(stearato)trilead, Fatty acids, C16-18, lead salts, Lead bis(tetrafluoroborate), Lead cyanamidate, Lead dinitrate, Lead oxide (lead monoxide), Lead tetroxide (orange lead), Lead titanium trioxide, Lead Titanium Zirconium Oxide, Pentalead tetraoxide sulphate, Pyrochlore, antimony lead yellow, Silicic acid, barium salt, lead-doped, Sulfurous acid, lead salt, dibasic, Tetraethyllead, Tetralead trioxide sulphate, Trilead dioxide phosphonate, Cadmium, Cadmium oxide, Cadmium sulphide and Lead di(acetate), Cadmium chloride, Cadmium fluoride, Cadmium sulphate, Cadmium nitrate, Cadmium carbonate, Cadmium hydroxide are based on the identified heavy metal result, boric acid, disodium tetraborate, anhydrous and tetraboron disodium heptaoxide, hydrate, Sodium perborate; perboric acid, sodium salt, Sodium peroxometaborate, Disodium octaborate, Orthoboric acid, sodium salt are based on the identified result of boron and sodium result. The identities of above metal substances present in the article have to be further confirmed;

**2)\*\*** Concentration of bis(tributyltin)oxide, TBTO is reported as tributyltin, TBT. The result is a screening test of TBTO and can cover TBTO and other salts under current technologies. Further investigation is needed to have the exact amount of TBTO;

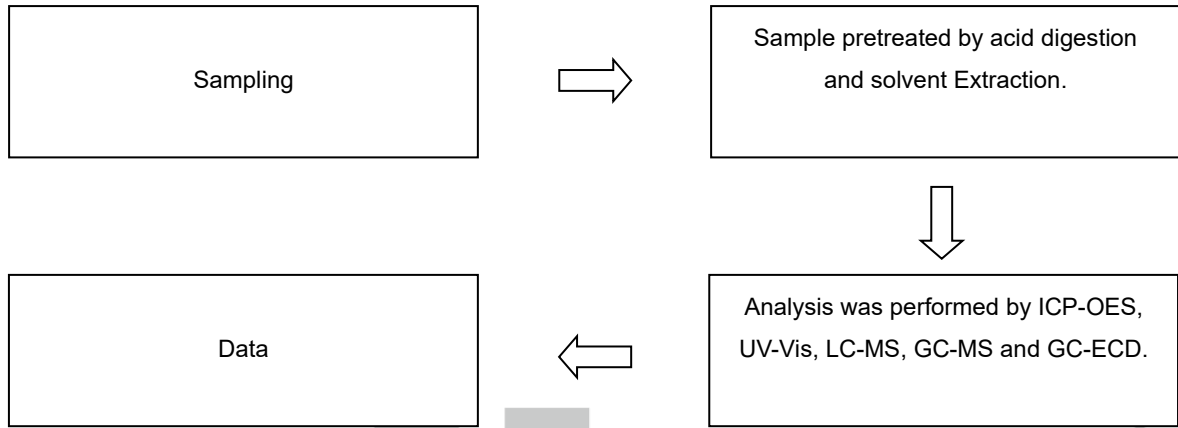
**3)\*\*\*** Calculated concentration of Aluminosilicate, Refractory Ceramic Fibres ;Zirconia Aluminosilicate, Refractory Ceramic Fibres is based on the identified heavy metal result and confirmation by microscope;

**4)\*\*\*\***The substance does only fulfil the criteria of REACH Art. 57 (a) if it contains Michler's ketone (EC Number: 202-027-5) or Michler's base (EC Number: 202-959-2) in a concentration  $\geq 0.1\%$  (weight / weight);

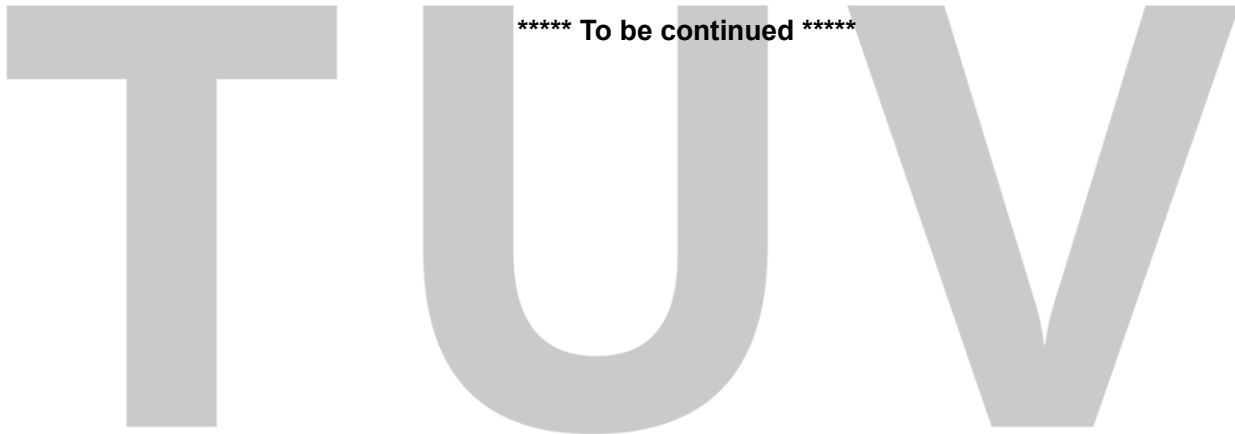
**5)** N.D. = Not detected, less than MDL

\*\*\*\*\* To be continued \*\*\*\*\*

**FLOW CHART**



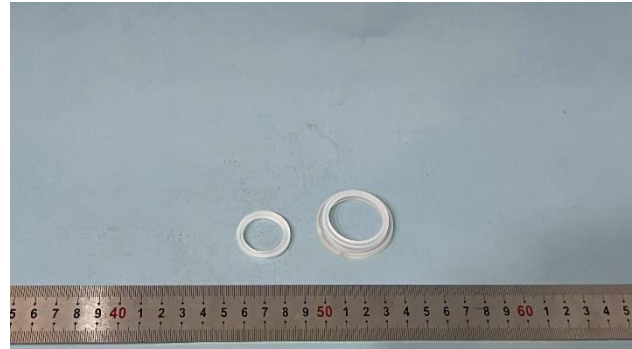
\*\*\*\* To be continued \*\*\*\*



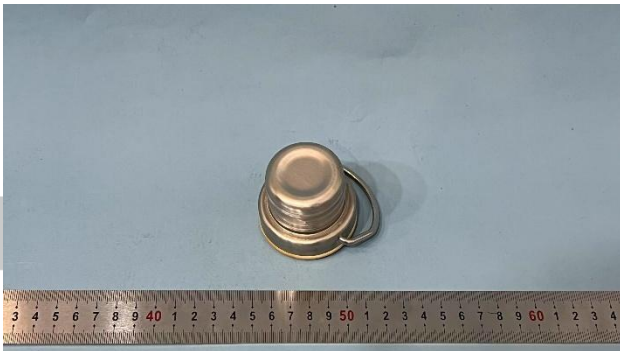
## SAMPLE IMAGE



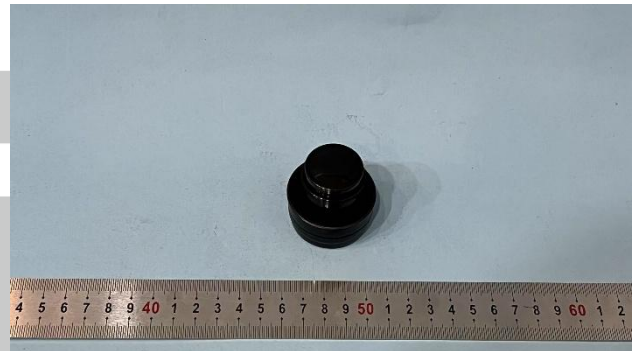
1#



2#



3#



4#



5#



Tested samples



Tested samples

# TEST REPORT



15432



19415 09



20428



19416 01



19416 02



19416 03



19416 04



19416 06

# TEST REPORT



19416 08



19416 09



19416 10



19416 12



19416 44



L9663AH01



19425 01



19425 03

# TEST REPORT



19425 09



19425 10



20441 01



20441 01S



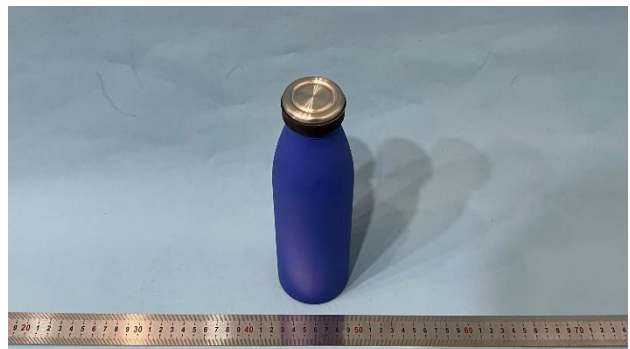
20441 02



20441 03



20441 09



20441 10

# TEST REPORT



20450



21412.44



21412.27



21412.06



21412 07



21413.24



L43359AA44



21411 01

# TEST REPORT



21411 02



21411 03



21411 09



21411 10



21411 04



21411.55



21411 01S



23419 01

# TEST REPORT



23419 02



L26646AA22



22421 01



22421 01S



22421 02



22421 03



22421 04



22421 10

# TEST REPORT



22421 64



22421 09



L1480AE22



L1480AE04



L1480AE12



L1480AE08



L9663AE15



L9663AF22

# TEST REPORT



L41964AL05



L41964AM 05



26402 64



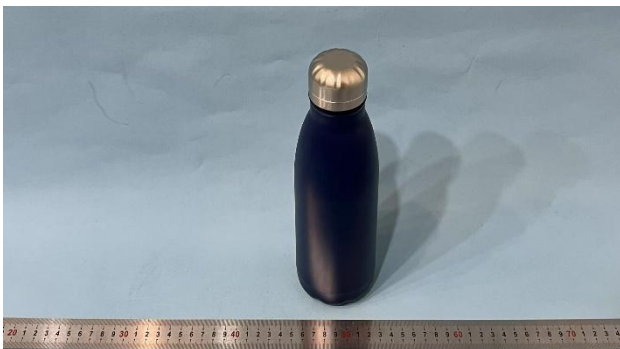
26402 05



26402 22



26402 02



19416 05



L9196AA24

# TEST REPORT



L9196AA24



26437 01



26437 37



26437 02



26437 05

\*\*\*\*\* END OF REPORT \*\*\*\*\*