






Product specific requirements: 121. Dishes and Cutlery Kids plastic

Version: 3.0
Last update: 07.04.2022

Material	Products	Remark
Plastics; Melamin, Silikon, Rubber	plates, cereal bowls, cups, cutlery, non-insulated container, table mats for kids < 3 years	Not applicable for baby bottles, drinking equipment (feeding bottles, teats, spouts, and cups)



No	Parameter	Method	Reference	Requirement
General requirements				
1	Labelling for products with food contact	In House	SR 817.023.21/ EU (EC) No. 1935/2004	<p>Products which have complied with food grade safety, but have not yet come into contact with food when sold, shall be properly labelled:</p> <ul style="list-style-type: none"> - A word "for foods"(for food contact), or a specific indication of their use or the "glass and fork" symbol <p>The name or trade name and the address or registered office of the party that is responsible for placing the materials or articles on the market</p> <p>Special instructions and precautions on how to use the final product if necessary. Adequate labeling for traceability</p>  <p>Required information shall be provided. Exception: not required if the product is obviously intended for food</p>
2	Labelling	In House	SR 817.023.21/ 2001/95/EC/ EN 14372 (P.7.2)	<p>The name or trade name and the address or registered office of the party that is responsible for placing the materials or articles on the market.</p> <p>Place: Directly on the product, or if technically not possible - on a label / leaflet.</p>
3	Purchase information	In House	SR 817.023.21/ EN 14372 (P.7.2)	<ul style="list-style-type: none"> a) Product identification information b) recommended age range for using the product; General safety c) Warning and safety instructions. d) Operating or care instructions e) Special instructions and precautions on how to use the final product if necessary <ul style="list-style-type: none"> - in a clearly visible place; - in easily readable and indelible writing; - in at least one official language (GE/IT/FR). <p>Place: Directly on the product or packaging or label or on a leaflet.</p> <p>It is recommended that products or packaging be batch coded.</p> <p>If some information is included in a leaflet within the packaging, a note indicating that this is the case.</p>
4	Instructions for use	In House	EN 14372 (P.7.3)	<p>The following information shall be provided</p> <ol style="list-style-type: none"> 1) information for the safe use of the product; 2) at least one method of cleaning; 3) before first use, clean the product; 4) unsuitable common methods of storage, cleaning and use which might damage the product (e.g. microwaves, sunlight, dishwasher detergent); 5) if the product can be used for heating food, unsuitable methods of heating.
5	Warning	In House	EN 14372 (P.7.4)	<p>The following warnings shall be provided in the form given:</p> <p>For your child's safety and health Warning!</p> <p>Always use this product with adult supervision. Before each use, inspect the product. Throw away at the first sign of damage or weakness. Always check food temperature before feeding.</p>
6	Warning (only for products used to heat the food/liquids)	In House	EN 14372 (P.7.4)	<p>For products with feeding teats the following warnings shall be provided in the form given:</p> <p>If product is used to heat the food, a warning indicating the possible dangers to the child shall be provided:</p> <p>Take extra care when microwave heating. Always stir heated food to ensure even heat distribution and test the temperature before serving.</p>
7	Warning for Melamin Products	In House	-	<p>Recommendation: "till maximal 70°C" Or "not for microwave use"</p> <ul style="list-style-type: none"> - in a clearly visible place & durable; - in at least one official language (GE/IT/FR) - place: Directly on the product
8	Further instructions	In House	With reference to EN 14350-1 (P.8.3)	<ol style="list-style-type: none"> 1) Before first use place in boiling water for 5 minutes. This is to ensure hygiene. 2) Clean before each use.
9	Ease of Assembly	In House	-	Shall provide ease of assembly and shall be accurate with no missing parts.
10	Functionality	In House	-	The sample shall function as intended or as claimed in the state of as-received.
11	Claim Verification	In House	-	<p>Must comply with all claims (including accessories, if any)</p>    

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Chemical requirements according to 14372:2004-11 - All items must fulfil the basic requirements (according to Swiss/EU Law) listed below					Material
12	Migration of certain elements	EN 14372 tested in accordance with 6.3.1 Analytical method specified in EN 71-3	EN 14372 P 5.4.2.2	Shall comply with the requirements: Soluble Lead (Pb): 25 mg/kg Soluble Antimony (Sb): 15 mg/kg Soluble Arsenic (As): 10 mg/kg Soluble Barium (Ba): 100 mg/kg Soluble Cadmium (Cd): 20 mg/kg Soluble Chromium (Cr): 10 mg/kg Soluble Mercury (Hg): 10 mg/kg Soluble Selenium (Se): 100 mg/kg	Applicable to all materials
13	Phthalates	tested according to 6.3.2	SR 817.023.41 EN 14372 P 5.4.2.3	DEHP+DBP+BBP < 0,1% (Total) DINP+DIDP+DNOP= 0.1% (Total)	Plastic, Thermoplastic
14	{Bisphenol A} (BPA) release	tested according to 6.3.6	SR 817.023.41 Art. 43 EN 14372 P 5.4.2.7	EU: 0,03 µg/ml into aqueous food simulant; CH: n.d. (0,05 from Mai 2018) 2,2-bis(4-hydroxyphenyl)propane [Bisphenol A] (BPA) CAS No. 80-05-7; IUPAC 4,4'-(methylethylidene)-bisphenol or 4,4'-isopropylidenediphenol	Polycarbonate and Polysulfone
15	{Bisphenol A} (BPA) release	In House	tested EN 14372 P 5.4.2.7	EU: 0,1 µg/ml into aqueous food simulant; 2,2-bis(4-hydroxyphenyl)propane [Bisphenol A] (BPA) CAS No. 80-05-7; IUPAC 4,4'-(methylethylidene)-bisphenol or 4,4'-isopropylidenediphenol	Recommended for all plastic materials other than Polycarbonate and Polysulfone
16	Volatile Compounds content	tested according to 6.3.3	SR 817.023.21 EN 14372 P 5.4.2.4	0.5 % (m/m) (at 200 ° C for 4 hours)	Vulcanised rubber, Silicone rubber
17	Specific migration of formaldehyde (components of cutlery and feeding utensils)	tested according to 6.3.4	SR 817.023.21 EN 14372 P 5.4.2.5	SRL ≤ 15 mg/kg food simulant / liquid	Thermosetting plastic, melamine, silicon
Additional requirements for plastics; rubber; melamin; silicon specific requirements for Switzerland SR 817.023.21 LGV, Annex 2: https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/anhang2-verordnung-materialien-kontakt-lm-gg.pdf.download.pdf/Anhang_2.pdf specific requirements for Switzerland: silicone products with food contact Annex 2: https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/anhang2-verordnung-materialien-kontakt-lm-gg.pdf.download.pdf/Anhang_2.pdf silicone products Annex 9: https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/anhang9-verordnung-materialien-kontakt-lm-gg.pdf.download.pdf/Anhang_9.pdf					Material
18	Sensory test	DIN 10955	(EU) 1935/2004; ResAP(2004)5	< 3	Applicable to all materials
19	Colour release	24th Commun. on the testing of plastics, BGBl 15 (1972) 285	SR 817.02	Coloured plastics, silicone, rubber with food contact: no color release	Applicable to all materials
20	Polycyclic aromatic hydrocarbons (PAH) (Annex 1) (only if coloured)	AFPS GS 2019:01 PAK	SR 817.023.41	EU 8 PAH: n.d. 0.2 mg/kg (each)	Silicone, Rubber Thermoplastic elastomers; Plastic
21	Phthalates	ISO 14389	SR 817.023.41	DEHP+DBP+BBP+DIBP < 0,1% (Total) DINP+DIDP+DNOP= 0.1% (Total)	Plastic, Thermoplastic
22	Primary aromatic amines	DIN 13130, UV/Vis	SR 817.023.21 With reference EN71-9 (EU) 10/2011	n.d. (each 0,01 mg/kg); Rubber: BFR XXI (Germany): Max. 20 µg/L Shall not be detected (Detection Limit = 0.002 mg/kg for substances under Entry 43 of Annex XVII of Regulation EC 1907/2006; 0.01 mg/kg for other PAAs)	Plastic, Rubber, Thermoplastic
23	Overall Migration	EN 1186 BFR XV, gravimetry;	SR 817.023.21 Art. 12 (EU) 10/2011	60 mg/kg; Rubber (migration of div. Classes I, II, III in accordance with BFR XXI)	Applicable to all materials
24	Specific migration of melamin (108-78-1)	DIN 13130, UV/Vis	SR 817.023.21 (EU) 10/2011	Max. 2,5 mg/kg food simulant	Melamin
25	Nitrosamine	BFR XXI Part BII 2.5.2.2.5.2; tested in accord. with 5.3	SR 817.023.41; With reference to EN 14350-2;	0.01 mg/kg	Vulcanised rubber, Silicone rubber Thermoplastic elastomers
26	N-Nitrosatable release	BFR XXI Part BII 2.5.2.2.5.2; tested in accord. with 5.3	SR 817.023.41; With reference to EN 14350-2;	0.1 mg/kg	Vulcanised rubber, Silicone rubber Thermoplastic elastomers

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27	Volatile Compounds content	tested according to 5.6	SR 817.023.21; With reference to EN 14350-2 P. 4.9	0.5 % (m/m) (at 200 ° C for 4 hours)		Vulcanised rubber, Silicone rubber	
Additional requirements for specific plastics						Material	CAS
28	Specific migration of Acrylonitrile-Butadien-Styrol (ABS)	DIN 13130, HS-GC-MS	SR 817.023.21 (EU) 10/2011	not detectable (< 0.01 mg/kg food simulant)	ABS, SAN	0000107-13-1	
29	Specific migration of Polymethylmethacrylate (PMMA)	DIN 13130	SR 817.023.21 (EU) 10/2011	EU Regulation: ≤ 0.6 mg/kg	PMMA	9011-14-7	
30	Toluene	GC-MS	SR 817.023.21 EC 1907/2006	≤ 1 mg/kg	PU	0000584-84-9	
31	Isocyanates	EN 13130-8	SR 817.023.21 (EU) 10/2011	sum ≤ 1 mg/kg as NCO	PU	0000112-96-9	
32	Styrol, total content	HS-GC-MS	SR 817.023.21 With reference to EN71-9	not detectable ≤ 0,1 mg/kg	PS	100-42-5	
33	Specific migration of terephthalic acid and isophthalic acid (IPA)	DIN 13130, IC	SR 817.023.21 (EU) 10/2011	≤ 7.5 mg/kg food simulant (TPA) / ≤ 5 mg/kg food simulant (IPA)	PET	100-21-0 121-91-5/ 280; 289	
34	Specific migration of antimony (Sb) (only if heavy metals failed)	DIN 13130, ICP-OES	SR 817.023.21 (EU) 10/2011	≤ 0.04 mg/kg food simulant	PET	0001309-64-4	
35	Total content of chromium (Cr), Vanadium (V), Hafnium (Hf), Zirconium (Zr) (only if heavy metals failed)	DIN EN ISO 11885, ICP-OES	Not regulated in CH Recommendation of BFR XXI	≤ 10 mg/kg (Cr) ≤ 20 mg/kg (V) ≤ 100 mg/kg (Zr) ≤ 100 mg/kg (Hf)	PP	/	
Paints, varnishes or colourants (if any) (specific requirements for Switzerland listed in Annex 10): https://www.blv.admin.ch/dam/blv/de/dokumente/lebensmittel-und-ernaehrung/rechts-und-vollzugsgrundlagen/lebensmittelrecht2017/anhang10-verordnung-materialien-kontakt-lm-gg.pdf.download.pdf/Anhang_10.pdf						Material	
36	Colourants	DIN EN ISO 11885, ICP-OES	SR 817.023.21 Annex 10	May be used to painting of plastic parts that may come into contact with food: a. colourants approved for food pursuant to SR 817.022.31 (LGV); b. barium sulphate; c. barite varnish that does not include barium carbonate and water-soluble barium compounds; d. chromium III oxide; e. copper and its alloys.		Applicable to all materials	
37	Lead (Pb), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21 Annex 2	n.d. in coating 100 mg/kg		Applicable to all materials	
38	Cadmium (Cd), total content	DIN EN ISO 11885, ICP-OES	SR 817.023.21 Annex 2	n.d. in coating 100 mg/kg		Applicable to all materials	
Product specific requirements							
GENERAL REQUIREMENTS							
39	Hygiene	Actual Use	-	All surfaces intended to come into contact with food shall be easily cleanable under normal circumstances.			
40	Visual and Tactile Examination	EN 14372 P 5.2.1	-	All components of cutlery and feeding utensils when assembled for use, shall be free from points and edges which are likely to cause injury. The article shall be free from splinters, burrs and flash.			
41	Sharp points & edges	EN 14372 P 5.2.2 & 3	-	Test in accordance with EN 71-1. Accessible points shall not be sharp points as determined in accordance with 6.2.1. Test in accordance with EN 71-1. Accessible edges shall not be sharp edges as determined in accordance with 6.2.2.			
42	Small Parts	EN 14372 P 5.2.4	-	When inserted into a small parts cylinder (see Figure 4), no component part of tested sample shall fit entirely within the cylinder in any orientation and without compression.			
43	Stability Test (Applicable to Free-standing Items)	Actual Use	-	The sample shall not overbalance on a 10-degree slope in all directions. Still stable, wobble a little bit			
44	Holes (Finger traps) (applies only to components made of materials with a Shore A hardness of more than 60 IRHDs)	EN 14372 P 5.2.5	-	No accessible hole which allows the insertion of a 5,5 mm diameter rod, unless the accessible hole also allows the insertion of a 12 mm diameter rod or has a penetration of < 10 mm.			

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PHYSICAL CHARACTERISTICS				
45	Volumetric Accuracy	With reference to EN 14350-1 P. 5.4.2	-	- numbered graduations 100 ml: ± 5 %; - numbered graduations < 100 ml: ± 5 mi.
46	Overall Dimensions (cm & inch) (if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).
47	Overall Weight (kg & lbs) (if claimed)	Standard Measure	-	Report Actual. Shall comply with any claims (-0%, +5%).
MECHANICAL REQUIREMENTS (14372:2004-11)				
48	Tensile strength (products with more than one component)	EN 14372 P 5.3.1	-	Test according to 6.2.3. No component shall break, tear or separate during this test.
49	Torque test (if a component can be gripped between thumb and forefinger)	EN 14372 P 5.3.2	-	Test according to EN 71-1. No component shall break, tear or separate during this test.
50	Tear resistance (Components out of materials with a Shore A hardness of <60 IRHD)	EN 14372 P 5.3.3	-	Test according to 6.2.4. (excluding suction pads) The tested component shall not break, tear or separate during the subsequent tensile test.
51	Hinges / Locking Mechanism	In-House Method	-	No Failure - 100 times cycling
52	Drop test	EN 14372 P 5.3.5	-	Test according to EN 71-1. If the product breaks, a warning shall be provided as given: "This product may break if dropped"
PERFORMANCE TESTING				
53	Dishwashing durability (if Applicable)	EN 12875-1	-	Except silver-plated, aluminium and cast iron unless claimed to be dishwasher safe: 125 cycles by hot setting 60 °C – no breakage or adverse effects, no decoration coating color change. Load in bottom rack unless claimed top loading only. If failure, must include warning label on package.
54	Hand Wash durability (if dishwasher is not applicable)	In-House Method	-	Shall exhibit no exterior surface degradation, no color change and damage after being hand washed 5 times using a national brand soap 0,5% liquid detergent at peak of 40±5°C, followed by rinse in cold water.
55	Printed decorations	EN 14372 P 5.2.6	-	Test according to EN ISO 2409; no print from decoration shall be removed from any product. Class 2 is acceptable. Adhesive labels shall not be used.
56	Durability of drawing to dry rubbing	In-House Method	-	14,7 N (1,5kg) (100±10) rubs 1/min, 300 rubs.
57	Decorative coating with food contact	In-house Method	-	20 times rubbing with eraser in 4 places. (only for children)
58	Decorative coating: resistance to acetic acid	In-house Method	-	For dishes: acetic acid 4% filled /putted ¼ into warm water (15°C) for 24h. Dry with textile paper. Without visible color change or damage on decorative coating.
59	Resistance to Boiling Water	With reference to EN 14350-1 P. 5.6.1	-	Test according to 6.1.1; no visual deformation or damage.
60	Stain Resistance	Actual Use	-	No permanent staining after applying mustard, spaghetti sauce to different spots. Let stand 2 hours. Wash 1 cycle in hot dishwasher (Or if not dishwasher safe, soak 30 min. in hot, soapy water).
61	Resistance to Microwave Heating (if microwave safe)	In House Method	-	Fill with food 90% of capacity. Food: goulash. Lid not fixed to the main product, 800W until food is completely hot. No distortion/ color change/ melting/ deformation/ charring / staining shall be observable after 3 cycles.
62	Extreme Heating in Microwave (if microwave safe)	EN 15284:2007	-	Keep the product at room temperature 20-25 °C for 1 hour. After short period heating (according to Norm), surface temperature of handles shall not exceed 40-45°C. No deformation. No breakage as in Table 1 of EN 15284:2007 occurs. Slight deformation/coloration is allowed.