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Table S1 SAs concentrations (%, w/w) in real leave-on samples of baby and child care products. (BL: body moisturizing lotion, BC: body moisturizing cream, BM: body milk, MO: moisturizing oil, FC: face cream, DC: diaper cream, ET: eau de toilette, LL: louses lotion, BW: baby wipes, SP: sunscreen products; see compound codes in Table 1)

Samples ^a	SA1	SA2	SA3	SA5	SA6	SA7	SA10	SA11	SA12	SA14	SA15	SA16	SA17	SA19	SA22	SA23	SA24
BL1			0.00388			0.00333											
BL2	0.00148		0.0165	0.00575		0.00731	0.00334	0.00220		0.00201		0.0115	0.0164	0.00870	0.00718	0.000275	0.0363
BL3													0.0000432				
BC1								0.000645									
BC2													0.0000474				
BC3			0.00430						0.000378								
BM1		0.44989															
BM2	0.0249		0.0279		0.00866	0.00681							0.0460				
BM3	0.121		0.0908		0.00807		0.00058						0.0646		0.0252		
BM4	0.0654		0.0569		0.00579								0.0426		0.0159		
MO1			0.00631	0.0116		0.00563		0.00340	0.00444			0.00426	0.0109	0.00171	0.0402	0.169	
FC1															0.000439	0.000046	0.000204
ET1	0.00204		0.0372		0.138	0.00459	0.0847		0.000058								
ET2	0.212		0.134		0.0138		0.0146					0.000448	0.170	0.0181	0.00280		
LL	0.00877		0.0138		0.0648						0.00223						
BW1							0.0000673										
SP1	0.0247	0.00069	0.0121	0.00344	0.000786	0.0156		0.00431					0.00858			0.00207	0.00349
SP2	0.00890		0.0333	0.0103								0.00749			0.0319		0.0210

To simplify, methyl-2-octynoate, cinnamal, anise alcohol, methyl eugenol, amyl cinnamal, amyl cinnamyl alcohol, farnesol and benzyl cinnamate are not included in the table since they were not detected in any sample. Blank spaces means values below LOD.

^a Samples MO2, FC2-FC4, DC1-DC5, and BW2 did not contain any of the analyzed SAs (values below LOD).

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Table S2 SAs concentrations in real rinse-off samples of baby and child care products (% w/w) (Sh: shampoo, LS: liquid soap, BB: bubble bath, Ge: gel, WP: washing powder for baby clothes, TP: toothpaste for kids; see compound codes in Table 1)

Samples ^a	SA1	SA2	SA3	SA5	SA6	SA7	SA8	SA10	SA11	SA12	SA14	SA15	SA16	SA17	SA21	SA22	SA23	SA24
Sh1	0.0138		0.00746									0.00442						0.00520
Sh2	0.0167		0.0290			0.00603						0.00396						
Sh3	0.00513	0.192	0.0402	0.0114		0.00769			0.00137				0.00407					
Sh4			0.00154															
LS1	0.00408		0.00755		0.0103	0.0279				0.000749								
LS2	0.000831		0.000371															
LS4	0.0328		0.0485											0.00946		0.0104		
LS5	0.0739		0.0655					0.00314		0.00329								
LS6		0.0430																
LS7	0.143		0.0262	0.00372	0.00736			0.00821			0.000185		0.00177			0.0111	0.000120	0.000074
BB																	0.000704	0.000337
Ge1			0.000881						0.000492		0.000299				0.130			
Ge2	0.00114		0.00766	0.00640			0.000067			0.000212						0.0133		
Ge3		0.000144															0.000038	
Ge5	0.01267		0.0540	0.0159									0.0114			0.0504		0.0363
WP	0.000330		0.0277			0.0131							0.000067				0.000027	
TP	0.000791		0.00215							0.000744								

To simplify, methyl-2-octynoate, anise alcohol, methyl eugenol, amyl cinnamal, lyral®, amyl cinnamyl alcohol, and benzyl cinnamate are not included in the table since they were not detected in any sample. Blank spaces means values below LOD.

^a Samples LS3 and Ge4 did not contain any of the analyzed SAs (values below LOD).

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Table S3 Preservatives concentrations (% w/w) in real leave-on samples of baby and child care products (BL: body moisturizing lotion, BC: body moisturizing cream, BM: body milk, MO: moisturizing oil, FC: face cream, DC: diaper cream, ET: eau de toilette, LL: louses lotion, BW: baby wipes, SP: sunscreen products)

Samples ^s	MeP	BHA	BHT	EtP	PrP	iBuP	BuP	TCS
BL1	0.224			0.0915	0.147		0.0910	
BL2	0.0569			0.0172	0.0102	0.00860	0.0167	
BL3	0.160							
BC1	0.457		0.0173		0.101	0.000479	0.000995	
BC2	0.312	0.000136	0.00827		0.0664		0.000524	
BC3					0.000110			
BC4	0.135				0.142			
BM2	0.000648		0.0701	0.000125	0.000425		0.0000598	
BM3	0.0630	0.000656	0.0163	0.0182	0.0128		0.0240	
BM4	0.0537		0.0138	0.0154	0.0105		0.0203	
FC1	0.284				0.0613	0.000477	0.00119	0.0000114
FC2	0.244				0.0683			
FC3	0.000330	0.000171	0.0417		0.0575			
FC4			0.00145					
DC1	0.0668			0.0315	0.0142	0.0117	0.0252	
DC3	0.00244		0.00152		0.0933			
DC4	0.000645			0.000282	0.000155	0.0000999	0.000234	
ET1			0.00837					
ET2			0.000173					
LL		0.0000313						
BW1	0.0910			0.0353	0.0359			
BW2	0.0687				0.0000153			
SP1	0.176		0.000166	0.0756				
SP2	0.00101		0.0724	0.000187	0.000456		0.0000918	

To simplify, bronidox, bronopol, iPrP, IPBC and BzP are not included in the table since they were not detected in any sample. Blank spaces means values below LODs.

^a Samples BM1, MO1, MO2, and DC2 did not contain any of the analyzed preservatives (values below LOD).

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Table S4 Preservatives concentrations in real rinse-off samples of baby and child care products (% w/w) (Sh: shampoo, LS: liquid soap, BB: bubble bath, Ge: gel, WP: washing powder for baby clothes, TP: toothpaste for kids)

Samples ^a	Bronopol	MeP	BHA	BHT	EtP	PrP	IPBC	iBuP	BuP	TCS
Sh1				0.000116						
Sh2				0.000367					0.0000137	0.00000282
Sh3		0.0763		0.000526	0.0237	0.0132		0.0118	0.0231	
LS1							0.00541			
LS2		0.0445			0.0183	0.0132		0.0111	0.0180	
LS4			0.000809	0.00132						
LS6	0.000613						0.00316			
LS7				0.000806						
Ge1	0.0146	0.0554				0.0258				0.00000397
Ge2				0.000231						
Ge3		0.0503			0.0210	0.0134		0.0131	0.0207	
Ge4										
Ge5		0.00117		0.000844	0.0000549	0.000471	0.00373		0.0000485	
WP		0.120				0.00107			0.0000172	
TP		0.0677								0.0000219

To simplify, bronidox, iPrP and BzP are not included in the table since they were not detected in any sample. Blank spaces means values below LODs.

^a Samples Sh4, LS3, LS5, BB and Ge4 did not contain any of the analyzed preservatives (values below LOD).

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Table S5 SAs average concentrations and standard deviations (% w/w) comparing MSPD and PLE methods in different leave-on leave-on (body lotion BL2; body milk BM2; body milk BM3; moisturizing oil MO1; sun care product SP1) and rinse-off baby care products (shampoo Sh1; shampoo Sh3; shower gel Gel)

Compound	BL2				BM2				BM3				MO1			
	MSPD		PLE		MSPD		PLE		MSPD		PLE		MSPD		PLE	
			Average	Desvest			Average	Desvest			Average	Desvest			Average	Desvest
SA1	0,001307	0,000119	0,001485	0,000028	0,023550	0,000535	0,025155	0,000258	0,111300	0,001508	0,116704	0,002078				
SA3	0,016477	0,000676	0,016497	0,000385	0,029525	0,000566	0,026114	0,001620	0,099697	0,002611	0,094318	0,006186	0,006162	0,000226	0,006315	0,000002
SA5	0,006098	0,000467	0,005755	0,000553									0,009935	0,000321	0,011036	0,000480
SA6					0,009216	0,000110	0,008723	0,000088	0,008743	0,000179	0,008257	0,000318				
SA7	0,007003	0,000484	0,007310	0,000135	0,006796	0,000111	0,006801	0,000092					0,006022	0,000004	0,005629	0,000596
SA10	0,003211	0,000264	0,003337	0,000034					0,000411	0,000018	0,000589	0,000028				
SA11	0,001699	0,000147	0,002198	0,000000									0,003085	0,000052	0,003395	0,000034
SA12													0,004104	0,000082	0,004442	0,000042
SA14	0,001612	0,000232	0,002014	0,000004												
SA16	0,010905	0,000514	0,011455	0,000196									0,004232	0,000135	0,004260	0,000028
SA17	0,013933	0,000592	0,015437	0,000282	0,043318	0,000161	0,038976	0,006123	0,076101	0,001306	0,072210	0,013235	0,010933	0,000283	0,010890	0,000040
SA19	0,008510	0,000535	0,008704	0,000171									0,001714	0,000157	0,001708	0,000014
SA22	0,007281	0,000241	0,007180	0,000053					0,027065	0,000560	0,026926	0,002922	0,040430	0,001627	0,040211	0,000167
SA23	0,000275	0,000010	0,000266	0,000005									0,170729	0,007132	0,168878	0,000496
SA24	0,035650	0,001628	0,036316	0,000503												

To simplify, SA2, SA4, SA8, SA9, SA13, SA15, SA18, SA20, SA21 and SA25 are not included in the table since they were not detected in these samples. Blank spaces means values below LODs

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Table S5 (cont.) SAs average concentrations and standard deviations (% w/w) comparing MSPD and PLE methods in different leave-on (body lotion BL2; body milk BM2; body milk BM3; moisturizing oil MO1; sun care product SP1) and rinse-off baby care products (shampoo Sh1; shampoo Sh3; shower gel Gel)

Compound	SP1				Sh1				Sh3				Gel			
	MSPD		PLE		MSPD		PLE		MSPD		PLE		MSPD		PLE	
	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest
SA1	0,021912	0,000865	0,024683	0,000951	0,010976	0,000231	0,011596	0,000253	0,003766	0,000059	0,004947	0,000026				
SA2	0,000591	0,000065	0,000688	0,000131					0,185489	0,002559	0,191771	0,004642				
SA3	0,011197	0,000075	0,012117	0,000198	0,008492	0,000686	0,007459	0,000559	0,039088	0,000544	0,040166	0,000638	0,000881	0,000086	0,000824	0,000076
SA5	0,003605	0,000028	0,003444	0,000063					0,009428	0,001556	0,011551	0,000367				
SA6	0,000756	0,000082	0,000786	0,000037												
SA7	0,013888	0,000082	0,015599	0,000196					0,006371	0,000701	0,007078	0,001080				
SA11	0,003128	0,000049	0,004239	0,000086					0,001186	0,000129	0,001223	0,000159	0,000492	0,000061	0,000579	0,000066
SA14													0,000399	0,000008	0,000493	0,000097
SA15					0,004737	0,000225	0,004423	0,000320								
SA16									0,003864	0,000096	0,004180	0,000215				
SA17	0,008449	0,000047	0,008581	0,000010												
SA21													0,129948	0,006764	0,131500	0,005577
SA23	0,002048	0,000029	0,002071	0,000035												
SA24	0,003533	0,000189	0,003490	0,000004	0,005632	0,000420	0,005200	0,000384								

To simplify, SA4, SA8, SA9, SA10, SA12, SA13, SA18, SA19, SA20, SA22 and SA25 are not included in the table since they were not detected in these samples. Blank spaces means values below LODs

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Table S6 Preservatives average concentrations and standard deviations (% w/w) comparing MSPD and PLE methods in different leave-on (body lotion BL2; body milk BM2; body milk BM3; sun protecting lotion SP1) and rinse-off baby care products (shampoo Sh3; gel Ge1)

Compound	BL2			BM2			BM3					
	MSPD		PLE	MSPD		PLE	MSPD		PLE			
	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest		
MeP	0,058362	0,001793	0,056901	0,000680	0,000644	0,000012	0,000652	0,000026	0,065292	0,001907	0,064777	0,001116
BHA									0,000711	0,000019	0,000655	0,000010
BHT					0,066191	0,000882	0,067007	0,000536	0,016923	0,000549	0,016423	0,000105
EtP	0,017575	0,000499	0,017187	0,000219	0,000124	0,000001	0,000126	0,000003	0,018752	0,000619	0,018550	0,000191
PrP	0,010426	0,000380	0,010157	0,000115	0,000414	0,000019	0,000434	0,000017	0,013816	0,001020	0,013672	0,000260
iBuP	0,008340	0,001069	0,008598	0,000161								
BuP	0,017039	0,000479	0,016700	0,000181	0,000056	0,000005	0,000062	0,000008	0,024648	0,000807	0,024502	0,000193
	SP1			Sh3			Gel					
Compound	MSPD		PLE	MSPD		PLE	MSPD		PLE			
	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest	Average	Desvest		
Bronopol												
MeP	0,184588	0,011903	0,178170	0,002929	0,080013	0,004091	0,074810	0,004814	0,014634	0,000743	0,012467	0,001532
BHT	0,000166	0,000009	0,000159	0,000010	0,000475	0,000007	0,000509	0,000019	0,055425	0,004279	0,055359	0,000047
EtP	0,076959	0,004890	0,077763	0,003130	0,024767	0,001067	0,023112	0,001519				
PrP					0,012093	0,000514	0,012535	0,000821	0,025805	0,001201	0,025779	0,000018
iBuP					0,012163	0,000468	0,011395	0,000661				
BuP					0,023406	0,001031	0,022386	0,001332				
TCS					0,000004	0,000000	0,000004	0,000000				

To simplify, Bronidox, iPrP, BzI, IPBC are not included in the table since they were not detected in these samples. Blank spaces means values below LODs.