



STANDARD 100

6 Annex

For a compilation of individual substances and CAS numbers, please see Annex 7 of this standard document.

Limit values table

Any value measured in the laboratory (which is measured in mg/kg, µg/kg or w-%) must be below the specified limit to obtain the certificate.

The following, expanded criteria catalogue as per Annex 6 and the accompanying Annex 7 are only used within the context of a OEKO-TEX® STANDARD 100 certification process if expressly requested by the applicant in the application. This catalogue specially has been developed for companies who are particularly focused on the **Detox Campaign** and it offers these companies assistance if they want to take this approach (or must take this approach due to specific customer requirements). The tightening of the limit values in comparison with the requirements in Annex 4 for many parameters / substances did not take place from a viewpoint of human ecological aspects but considering Point 4.3.5 of this standard. The parameters flagged with an asterisk (*) belong to the so-called "Detox Substance Groups".

Expanded requirements / limit values and fastness

The testing procedures are described in a separate document

부록

개별 물질 및 CAS 번호는 본 표준 문서의 부록 7을 참조하십시오.

제한 수치 표

실험실에서 측정된 값(mg/kg, µg/m 또는 w-%측정)은 인증서를 획득하기 위해 지정된 한계보다 낮아야 합니다.

아래는 OEKO-TEX® STANDARD 100 인증의 신청인의 요청에 의해서만 수행이 되는 부록 6과 부록 7의 카탈로그와 수행되는 내용입니다. 본 카탈로그는 특별히 **디톡스 캠페인(Detox Campaign)**을 준비중이거나 이러한 기업들을 지원하시기 위한 기업들 (또는 특별한 구매자의 요청이 있을경우)에 해당됩니다. 부록 4의 요구조건과 비교하여 엄격한 제한수치는 많은 변수와 물질에 대한 기준과 발생을 인체생리학적 측면에서 허용하지 않고 있으며 본 기준의 4.3.5항을 고려하고 있습니다. 부록 6에서 별표(*)를 부착하고 있는 기준은 "Detox Substance Groups(디톡스 물질 그룹)"으로 불립니다.

확장된 요구사항 / 한계값과 견뢰도

시험절차는 별도의 서류에 명시됩니다

Product Class / 제품 등급	I Baby / 영유아	II in direct contact with skin / 피부와 직접적인 접촉	III with no direct contact with skin / 피부와 직접적인 접 촉이 없음	IV Decoration material / 장식 재 료
pH value / pH 값 ¹	4.0 - 7.5	4.0 - 7.5	4.0 - 9.0	4.0 - 9.0
Formaldehyde / 포름알데히드 [mg/kg]				
Free and partially releasable / 없거나 일부 검출	n.d. / n.d. (불검출) ²	75	150	300
Extractable (heavy) metals / 용출 (중)금속 [mg/kg] *				
As (Arsenic / 비소)	0.2	0.2	0.2	0.2
Ba (Barium / 바륨)	1000	1000	1000	1000
Cd (Cadmium / 카드뮴)	0.1	0.1	0.1	0.1
Co (Cobalt / 코발트)	1.0	1.0	1.0	1.0
Cr (VI) (Chromium (VI) / 크롬 (VI))	0.5	0.5	0.5	0.5
Cr (Chromium / 크롬)	1.0	1.0	1.0	1.0
Cu (Copper / 구리)	25.0 ³	50.0 ³	50.0 ³	50.0 ³
Hg (Mercury / 수은)	0.02	0.02	0.02	0.02
Mn (Manganese / 망간)	90.0	90.0	90.0	90.0
Ni (Nickel / 니켈) ⁴	1.0 ⁵	1.0	1.0	1.0
Pb (Lead / 납)	0.2	0.2 ⁶	0.2 ⁶	0.2 ⁶
Sb (Antimony / 안티몬)	30.0	30.0	30.0	30.0
Se (Selenium / 셀레늄)	100	100	100	100
Zn (Zinc / 아연)	750	750	750	750



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- 1 Exceptions for products which must be treated wet during the further processing: 4.0 - 10.5; for foams: 4.0 - 9.0; for wet wipes: 3.5 to 7.5; for taffeta labels: 4.0 - 9.0; for film material (e.g. polyolefin films) with incorporated Calciumcarbonate/carbonate or talc and wallpaper, without direct skin contact: 4.0-10.0, / 추가 가공 중에 젖은 상태로 처리해야 하는 제품에 대한 예외: 4.0 - 10.5; 폼의 경우: 4.0 - 9.0; 물티슈의 경우: 3.5 - 7.5; 태피터 라벨: 4.0 - 9.0; 종탄산칼슘/탄산염 또는 활석 및 벽지가 포함된 필름 재료(예: 폴리올레핀 필름)의 경우, 직접 피부 접촉 없음 : 4.0-10.0
- 2 n.d. corresponds according to „Japanese Law 112“ test method with an absorbance unit less than 0.05 resp. 16 mg/kg / "일본 112 법"에 따라 흡광도가 0.05 resp. 16 mg/kg 미만이면 n.d.(불검출)가 부여됨
- 3 No requirement for accessories and yarns made from inorganic materials, respecting the requirements regarding biological active products / 생리 활성 제품 요구 사항을 고려하여 무기물질로 만들어진 장식류나 원사에는 요구되지 않음
- 4 Including the requirement by REACH-Regulation Annex XVII, Entry 27 / REACH-규정 Annex XVII, Entry 27의 요구 사항 포함
- 5 For metallic accessories and metallized surfaces: 0.5 mg/kg / 금속 장식 류와 금속 표면 처리된 제품: 0.5 mg/kg
- 6 For accessories made from glass: 0.1% / 유리로 만든 액세서리제품은 요구되지 않음



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Expanded requirements / limit values and fastness 확장된 요구사항 / 한계값과 견뢰도

The testing procedures are described in a separate document 시험절차는 별도의 서류에 명시됩니다

Product Class / 제품 등급	I Baby / 영유아	II in direct contact with skin / 피부와 직접적인 접촉	III with no direct contact with skin / 피부와 직접적인 접 촉이 없음	IV Decoration material / 장식 재 료
Heavy metals total content / 중금속 총 함량 [mg/kg]				
As (Arsenic / 비소)	100	100	100	100
Cd (Cadmium / 카드뮴)	40.0	40.0 ⁶	40.0 ⁶	40.0 ⁶
Hg (Mercury / 수은)	0.5	0.5	0.5	0.5
Pb (Lead / 납) at metallic material / 금속 재료	90.0	90.0 ⁶	90.0 ⁶	90.0 ⁶
Pb (Lead / 납) at plastic, coatings etc. / 플라스틱, 코팅 등	75.0	75.0 ⁶	75.0 ⁶	75.0 ⁶
Pesticides / 살충제 [mg/kg]⁷				
Sum / 합계	0.5	1.0	1.0	1.0
Glyphosate and salts for conventional cotton / 일반 면에 대한 글리포세이트 및 염류	5	5	5	5
Glyphosate and salts for organic cotton / 유기농면에 대한 글리포세이트 및 염류	0.5	1.0	1.0	1.0
Pesticides under observation / 관찰 중인 살충제	u.o. / 관찰중			
Chlorinated phenols / 염화페놀 [mg/kg][*]				
Pentachlorophenol (PCP)	0.05	0.25	0.25	0.25
Tetrachlorophenols (TeCP), Sum / 합계	0.05	0.25	0.25	0.25
Trichlorophenols (TrCP), Sum / 합계	0.2	1.00	1.00	1.00
Dichlorophenols (DCP), Sum / 합계	0.50	1.00	1.00	1.00
Monochlorophenols (MCP), Sum / 합계	0.50	1.00	1.00	1.00
Plasticizer/Phthalates / 가소제/프탈레이트 [mg/kg]^{8*}				
Each / 개별	100	100	100	100
Sum / 합계	250	250	250	250
Organic tin compounds / 유기 주석 화합물 [mg/kg][*]				
TBT, TPhT	0.5	0.5	0.5	0.5
DBT, DMT, DOT, DPhT, DPT, MBT, MOT, MMT, MPhT, TeBT, TeET, TCyHT, TMT, TOT, TeOT, TPT	0.5	0.5	0.5	0.5
Other chemical residues / 기타 잔류 화학물질 [mg/kg]				
Aniline / 아닐린 ⁹	20	20	20	20
Azodicarbonamide (ADCA)	1000	1000	1000	1000
Benzene	1.0	1.0	1.0	1.0
Bisphenol A / Bispheno A	100	100	100	100
Bisphenol B / 비스페놀 B	1000	1000	1000	1000
Bisphenol S	1000	1000	1000	1000
Bis(4-chlorophenyl) sulphone	1000	1000	1000	1000
Carcinogenic Arylamines / 발암성 아릴 아민계 ^{10 9}	20	20	20	20
Chemical residues under observation / 관찰 중인 화학 잔류물	u.o. / 관찰중			
DMFu	0.1	0.1	0.1	0.1
Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide	1000	1000	1000	1000
6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol	1000	1000	1000	1000
Free and cleavable carcinogenic arylamines under observation / 관찰 중인 유리기 및 분절 가능한 발암성 아릴아민계	u.o. / 관찰중			
Melamine ¹¹	1000	1000	1000	1000
2-Mercaptobenzothiazole / 2-Mercaptobenzothiazol	1000	1000	1000	1000
N-(hydroxymethyl)acrylamide	1000	1000	1000	1000
OPP	10	10	10	10
Phenol / 페놀	20	50	50	50
Quinoline / 퀴놀린	50	50	50	50
TCEP	10	10	10	10
Tris(2-methoxyethoxy)vinylsilane	1000	1000	1000	1000
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear / Tris(4-nonylphenyl, 분지형 및 선형) phosphite(TNPP), ≥ 0.1% w/w의 4-nonylphenol, 분지형 및 선형 포함	1000	1000	1000	1000



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- 6 For accessories made from glass: 0.1% / 유리로 만든 액세서리제품은 요구되지 않음
- 7 For natural fibres only / 천연섬유만
- 8 For coated articles, plastisol prints, flexible foams, and accessories made from plastics / 코팅된 제품, 플라스틱졸 프린트, 연질 폼, 플라스틱으로 만들어진 액세서리에 적용
- 9 May also be present as residues. / 잔류물로 존재할 수도 있음.
- 10 For all materials containing polyurethane or other materials which may contain free carcinogenic arylamines / 폴리우레탄을 함유한 모든 물질 또는 무독성 아릴아민계를 포함하는 물질
- 11 There is a transition period for foams until the 01.01.2025. If the foam contains more than 1000 mg/kg melamine, this must be stated on the certificate. / 2025년 1월 1일까지 폼에 대한 전환 기간이 있습니다. 폼에 멜라민 함량이 1000mg/kg 이상인 경우 인증서에 이를 명시해야 합니다.



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Colourants / 착색제 [mg/kg] *				
Allergens / 알레젠 *	20	20	20	20
Carcinogens / 발암성 *	20	20	20	20
Free and cleavable carcinogenic arylamines under observation / 관찰 중인 유리기 및 분리 가능 발암성 아릴아민 ⁹	u.o. / 관찰중			
Free and cleavable carcinogenic arylamines except aniline / 아닐 린을 제외한 유리기 및 분리 가능한 발암성 아릴아민계 * ⁹	20	20	20	20
Michler's Ketone / Base / 미힐러 케톤/염기 each / 개별	1000	1000	1000	1000
Navy Blue / 네이비 블루	no intentional use / 의도적인 사용이 아님			
Others / 기타 *	20	20	20	20
Aniline / 아닐린 ⁹	20	20	20	20
Chlorinated benzenes and toluenes / 염화벤젠류와 톨루엔류 [mg/kg] *				
Sum / 합계	1.0	1.0	1.0	1.0
Polycyclic aromatic hydrocarbons (PAH) / 다환방향족탄화수소(PAH) [mg/kg] ¹²				
Benzo[a]anthracene	0.5	1.0	1.0	1.0
Benzo[a]pyrene	0.5	1.0	1.0	1.0
Benzo[b]fluoranthene	0.5	1.0	1.0	1.0
Benzo[e]pyrene	0.5	1.0	1.0	1.0
Benzo[j]fluoranthene	0.5	1.0	1.0	1.0
Benzo[k]fluoranthene	0.5	1.0	1.0	1.0
Chrysene	0.5	1.0	1.0	1.0
Dibenzo[a,h]anthracene	0.5	1.0	1.0	1.0
Naphthalene	2.0	2.0	2.0	2.0
Sum / 합계	5.0	10.0	10.0	10.0
Biological active products / 생리 활성 제품				
	no intentional use / 의도적인 사용이 아님 ¹³			
Flame retardant products / 난연 제품*				
General / 일반	no intentional use / 의도적인 사용이 아님 10 mg/kg; each / 개별 ^{13 14} Sum of all / 총합계 50 mg/kg			

⁹ May also be present as residues. / 잔류물로 존재할 수도 있음.

¹² For all synthetic fibres, yarns, or threads and for plastic materials / 모든 인조 섬유, 원사 또는 재봉사와 플라스틱 재료에 적용

¹³ With exception of treatments accepted by OEKO-TEX® (see actual list on www.oeko-tex.com) but with exception of those listed products / treatments, which base on antimony trioxide/-pentoxide etc. respectively contain these substances. Such products / treatments can not be used at certification processes according to Annex 6 / OEKO TEX® 에서 승인한 처리제 이외에도 (실제목록은 www.oeko-tex.com 참조) 그러나 허용된 제품 또는 처리 방법 이라도 antimony trioxide/-pentoxide 등을 개별적으로 함유하고 있는 물질. 이러한 제품/처리는 부록 6에 따른 인증 절차에 사용할 수 없음

¹⁴ At certification processes according to Annex 6 accepted flame retardant products do not contain any of the banned flame retardant substances listed in Annex 7 as active agent / 부록 6에 따른 인증 과정에서 허용되는 방염 제품에는 부록 7에 활성제로 기재된 금지된 방염성 물질이 포함되어 있지 않음



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Solvent residues / 솔벤트 잔류 [mg/kg] ¹⁵				
DMAc ¹⁶	500 1000 ¹⁷	500 1000 ¹⁷	500 1000 ¹⁷	500 1000 ¹⁷
DMF ¹⁶	500 1000 ¹⁷	500 1000 ¹⁷	500 1000 ¹⁷	500 1000 ¹⁷
Formamide	200	200	200	200
NMP ¹⁶	500 1000 ¹⁷	500 1000 ¹⁷	500 1000 ¹⁷	500 1000 ¹⁷
Surfactant, wetting agent residues, alkyl phenols / 계면 활성제, 습윤제 잔류물, 알킬페놀 [mg/kg] *				
BP, NP, OP, HpP, PeP, NP(EO), OP(EO); (Sum / 합계)	50.0	50.0	50.0	50.0
BP, NP, OP, HpP, PeP; (Sum / 합계)	5.0	5.0	5.0	5.0
PFAS, Per- and polyfluoroalkylsubstances / 과불화화합물*				
PFAS	no intentional use / 의도적인 사용이 아님			
PFOA and salts / PFOA 및 염류 Sum / 합계 [µg/kg]	25	25	25	25
PFOA related Substances / PFOA와 관련된 물질 Sum / 합계 [µg/kg] ¹⁸	250	250	250	250
C9-C14 PFCA and further PFCAs / C9-C14 PFCA 및 추가 PFCAs Sum / 합계 [µg/kg]	25	25	25	25
C9-C14 PFCAs related substances / C9-C14 PFCAs 관련된 물질 Sum / 합계 [µg/kg]	260	260	260	260
PFOS and related / PFOS 및 염류 Sum / 합계 [µg/m ²]	1	1	1	1
Perfluorinated sulfonic acids / Perfluorinated sulfonic acids Sum / 합계 [µg/kg]	25	25	25	25
PFHxS and salts / PFHxS 및 염류 Sum / 합계 [µg/kg]	25	25	25	25
Esters of fluorinated alcohols with acrylic acid / 아크릴산과 불소화 알코올의 에스테르 Sum / 합계; 부록 7에 해당됨 [µg/kg]	250	250	250	250
Partially fluorinated carboxylic / sulfonic acids / Partially fluorinated carboxylic / sulfonic acids Sum / 합계 [µg/kg]	25	25	25	25
Partially fluorinated carboxylic / sulfonic acids under observation / Partially fluorinated carboxylic / sulfonic acids 관찰 중	u.o. / 관찰 중			
Partially fluorinated linear alcohols / 부분적으로 불소화된 선형 알코올 Sum / 합계 [µg/kg]	250	250	250	250

¹⁵ For fibre, yarns, fabrics and coated articles (e.g. artificial leather) as well as foams (EVA, PVC), where solvents are used during production / 생산 공정 중 솔벤트가 사용된 섬유, 원사, 원단 그리고 코팅된 제품(예. 인조가죽) 및 폼(EVA, PVC)에 적용

¹⁶ Exception for products which must undergo further industrial production stages (heat process in wet or dry stage preferred, but also other steps are possible): maximal 1.5 % / 이후의 산업 생산 단계를 반드시 거쳐야 하는 제품은 제외 (습식 또는 건조 단계에서의 열처리 또는 다른 공정도 가능): 최대허용수치 1.5 %

¹⁷ For materials made of acrylic (PAN), elastane (EL) / polyurethane, polyimide and aramides as well as coated (PU-, PVC-, PVC-plastisol-, PVDC-, PVC-copolymer) textiles. / 아크릴(PAN), 엘라스테인(EL) / 폴리우레탄, 폴리이미드 및 아라미드 및 코팅(PU-, PVC-, PVC-플라스티졸-, PVDC-, PVC-공중합체)된 섬유 / 폴리아크릴로나이트릴로(PAN), 엘라스테인(EL)의 재질.

¹⁸ Any other substance, which can degrade to PFOA, including substances (also salts and polymers) having linear or branched perfluoroheptyl derivatives with the formula (C7F15)C as a structural element. Except those derivatives with the formula C8F17-X, where X= F, Cl, Br, and fluoropolymers that are covered by CF3[CF2]n-R', where R'=any group, n> 16, and perfluoroalkyl carboxylic acids (including their salts, esters, halides and anhydrides) with ≥ 8 perfluorinated carbons. Also excluded are perfluoroalkane sulfonic acids and perfluoro phosphonic acids (including their salts, esters, halides and anhydrides) with ≥ 9 perfluorinated carbons or, perfluorooctanesulfonic acid and its derivatives (PFOS), which are listed in the Appendix I Part A of the regulation VO (EU) 2019/1021. / 구조 요소로 화학식 (C7F15)C를 갖는 선형 또는 분지형 퍼플루오로헵틸 유도체를 갖는 물질(염류 및 폴리머도 포함)을 포함하여 PFOA로 분해될 수 있는 기타 물질. X= F, Cl, Br인 공식 C8F17-X의 유도체와 CF3[CF2]n-R'(R'=임의의 그룹, n> 16 및 퍼플루오로알킬 카복실산(염류, 에스테르, 할로겐화물 및 무수물 포함) ≥ 8 과불소화 탄소. 또한 규정 VO (EU) 2019/1021의 부록 I 파트 A에 나열된 퍼플루오로알칸 술폰산 및 퍼플루오로 포스폰산(염류, 에스테르, 할로겐화물 및 무수물 포함) ≥ 9 과불화 탄소 또는 퍼플루오로옥탄술폰산 및 유도체(PFOS)도 제외됩니다.



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Product Class / 제품 등급	I Baby / 영유아	II in direct contact with skin / 피부와 직접적인 접촉	III with no direct contact with skin / 피부와 직접적인 접 촉이 없음	IV Decoration material / 장식 재 료
Fluorine content / 플루오린 함량 [mg/kg]				
Total fluorine (TF) / 총 불소(TF)	100	100	100	100
UV stabilizers / UV 안정제 [mg/kg]				
UV 320, UV 326, UV 327, UV 328, UV329, UV 350; each / 개별	1000	1000	1000	1000
Chlorinated paraffins / 염화파라핀				
Sum of SCCP and MCCP / SCCP 및 MCCP의 합계 [mg/kg]	50	50	50	50
Siloxanes / 실록산 [mg/kg]				
D4, D5, D6	1000	1000	1000	1000
N-Nitrosamines; each / 개별 [mg/kg]				
N-nitrosatable substances / N-나이트로사이트된 물질; Sum / 합 계 [mg/kg]	5	5	5	5
Chlorinated solvents / 염화 솔벤트 [mg/kg] *				
1,1,1,2-Tetrachloroethane	1.0	1.0	1.0	1.0
1,1,1-Trichloroethane	1.0	1.0	1.0	1.0
1,1,2,2-Tetrachloroethane	1.0	1.0	1.0	1.0
1,1,2-Trichloroethane	1.0	1.0	1.0	1.0
1,1-Dichloroethane	1.0	1.0	1.0	1.0
1,1-Dichloroethylene	1.0	1.0	1.0	1.0
1,2-Dichloroethane	1.0	1.0	1.0	1.0
1,2-Dichloroethylene	1.0	1.0	1.0	1.0
Dichloromethane	1.0	1.0	1.0	1.0
Pentachloroethane	1.0	1.0	1.0	1.0
Tetra(per)chloroethylene	1.0	1.0	1.0	1.0
Tetrachloromethane	1.0	1.0	1.0	1.0
Trichloroethylene	1.0	1.0	1.0	1.0
Trichloromethane (Chloroform)	1.0	1.0	1.0	1.0
Chlorinated solvents / 염화 솔벤트 Sum / 합계	5.0	5.0	5.0	5.0



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Other VOCs and glycols / 기타 VOCs 및 글리콜 [mg/kg] ^{19*}				
Acetophenone	10.0	10.0	10.0	10.0
Benzene	1.0	1.0	1.0	1.0
Bis(2-methoxyethyl)ether	10.0	10.0	10.0	10.0
Cyclohexanone	10.0	10.0	10.0	10.0
1,2-Diethoxyethane	10.0	10.0	10.0	10.0
1,4-dioxane	10.0	10.0	10.0	10.0
2-Ethoxyethanol	10.0	10.0	10.0	10.0
2-Ethoxyethylacetate	10.0	10.0	10.0	10.0
Ethylbenzene	10.0	10.0	10.0	10.0
Ethylene glycol dimethyl ether	10.0	10.0	10.0	10.0
2-Methoxy-1-propanol	10.0	10.0	10.0	10.0
2-Methoxyethanol	10.0	10.0	10.0	10.0
2-Methoxyethylacetate	10.0	10.0	10.0	10.0
2-Methoxypropylacetate	10.0	10.0	10.0	10.0
1-Methyl-2-pyrrolidone (NMP)	refer to solvent residues / 솔벤트 잔류 참조			
Methylethylketone	10.0	10.0	10.0	10.0
Naphthalene	refer to corresponding entry at PAH / PAHs에 해당 항목 참조			
N,N-Dimethylacetamide (DMAC)	refer to solvent residues / 잔류 솔벤트 참조			
N,N-Dimethylformamide (DMF)	refer to solvent residues / 솔벤트 잔류 참조			
2-Phenyl-2-propanole	10.0	10.0	10.0	10.0
Styrene / 스티렌	10.0	10.0	10.0	10.0
Toluene / 톨루엔	10.0	10.0	10.0	10.0
1,2,3-Trichloropropane	10.0	10.0	10.0	10.0
Triethylene glycol dimethyl ether	10.0	10.0	10.0	10.0
Xylene	10.0	10.0	10.0	10.0
Cresols / 크레졸 [mg/kg]				
o-Cresol	10.0	10.0	10.0	10.0
m-Cresol	10.0	10.0	10.0	10.0
p-Cresol	10.0	10.0	10.0	10.0
Colour fastness (staining) / 견뢰도(얼룩)				
To water / 물	3-4	3	3	3
To acidic perspiration / 산성 땀 용액	3 - 4	3 - 4	3 - 4	3 - 4
To alkaline perspiration / 알칼리성 땀 용액	3 - 4	3 - 4	3 - 4	3 - 4
To rubbing, dry / 마찰 견뢰도 ^{20 21}	4	4	4	4
To saliva and perspiration / 침과 땀 견뢰도	fast / 견고			

¹⁹ These limits do not apply for non-textile accessories / small parts (e.g. synthetic buttons, lacquered, painted or coated metallic components, etc.) / 이러한 제한은 비섬유 액세서리/부자재(예. 합성 단추, 라커 사용, 도색 또는 코팅된 금속 구성요소 등)에는 적용되지 않음.

²⁰ No requirements for 'wash-out' - articles / '워시-아웃' -제품엔 해당하지 않음

²¹ For pigment, vat or sulphurous colourants a minimum grade of colour fastness to rubbing of 3 (dry) is acceptable / 안료, 견염, 황화 염료는 (건) 마찰 견뢰도 3등급까지 허용



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Emission of volatiles / 휘발성 방출 [mg/m³] ²²				
Formaldehyde	0.1	0.1	0.1	0.1
Toluene / 톨루엔	0.1	0.1	0.1	0.1
Styrene / 스티렌	0.005	0.005	0.005	0.005
4-Vinylcyclohexene	0.002	0.002	0.002	0.002
4-Phenylcyclohexene	0.03	0.03	0.03	0.03
Butadiene	0.002	0.002	0.002	0.002
Vinylchloride / 염화비닐	0.002	0.002	0.002	0.002
Aromatic hydrocarbons / 방향족 탄화수소	0.3	0.3	0.3	0.3
Organic volatiles / 방향족 유기물	0.5	0.5	0.5	0.5
Organic cotton fibres and materials / 유기농 면 섬유 및 원재료 ²³				
GMO Genetically modified organism / GMO 유전자 변형 유기체	no intentional use / 의도적인 사용이 아님			
GMO quantitative analysis / 유전자 변형 유기체(GMO) 정량 분석 [%] ²⁴	5	5	5	5
Determination of odours /취기 시험				
General / 일반	no intentional use / 의도적인 사용이 아님 ²⁵			
SNV 195 651 (Modified / 개정) ²²	3	3	3	3
Banned fibres / 금지 섬유				
Asbestos / 석면	no intentional use / 의도적인 사용이 아님			
synthetic polymer microplastics in decorative articles / 장식용 제 품의 합성 고분자 미세플라스틱 ²⁶	no intentional use / 의도적으로 사용하지 않음			

²² For textile carpets, mattresses as well as foams and large coated articles not being used for clothing / 의복에 사용되지 않는 직물 카펫, 매트리스나 폼 또는 코팅 면적이 넓은 제품에 해당

²³ Refer also to item 5.5. of this standard / 본 표준의 5.5 항목 참조

²⁴ In a first step, the qualitative method is performed. If GMO is detected, the quantitative method can be carried out (on raw cotton only). / 첫 번째 단계에서는 정 성적 방법이 수행됩니다. GMO가 검출되면 정량법을 실시할 수 있습니다(면화에 한함).

²⁵ No odour from mould, high boiling fraction of petrol, fish, aromatic hydrocarbons or perfume / 곰팡이, 비등점이 높은 석유 화학제품, 생선, 방향족탄화수소 또는 향수 등의 냄새는 허용되지 않음

²⁶ as defined by (EC) 1907/2006 Annex XVII Nr. 78 / (EC) 1907/2006 부속문서 XVII Nr. 78에서 정의한 바와 같이



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7 Annex

부록

Compilation of the individual substances for Annex 6 개별 물질의 편집 부록 6

Pesticides / 살충제

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
2,4,5-T	93-76-5	Endrin / Endrine	72-20-8
2,4-D	94-75-7	Esfenvalerate	66230-04-4
Acetamiprid	135410-20-7, 160430-64-8	Fenvalerate	51630-58-1
Aldicarb	116-06-3	Heptachlor	76-44-8
Aldrin / Aldrine	309-00-2	Heptachloroepoxide	1024-57-3, 28044-83-9
Azinophosethyl	2642-71-9	Hexachlorobenzene	118-74-1
Azinophosmethyl	86-50-0	Hexachlorocyclohexane, α - / Hexachlorocyclohexane, α -	319-84-6
Bromophos-ethyl	4824-78-6	Hexachlorocyclohexane, β - / Hexachlorocyclohexane, β -	319-85-7
Captafol	2425-06-1	Hexachlorocyclohexane, δ - / Hexachlorocyclohexane, δ -	319-86-8
Carbaryl	63-25-2	Imidacloprid	105827-78-9, 138261-41-3
Carbendazim	10605-21-7	Isodrin / Isodrine	465-73-6
Chlorbenzilate	510-15-6	Kelevan	4234-79-1
Chlordane	57-74-9	Kepone	143-50-0
Chlordimeform	6164-98-3	Lindane	58-89-9
Chlorfenvinphos	470-90-6	Malathion	121-75-5
Chlorothalonil	1897-45-6	MCPA	94-74-6
Clothianidin	210880-92-5	MCPB	94-81-5
Coumaphos	56-72-4	Mecoprop	93-65-2
Cyfluthrin	68359-37-5	Metamidophos	10265-92-6
Cyhalothrin	91465-08-6	Methoxychlor	72-43-5
Cypermethrin	52315-07-8	Mirex	2385-85-5
DEF	78-48-8	Monocrotophos	6923-22-4
Deltamethrin	52918-63-5	Nitenpyram	150824-47-8, 120738-89-8
DDD	53-19-0, 72-54-8	Parathion	56-38-2
DDE	3424-82-6, 72-55-9	Parathion-methyl	298-00-0
DDT	50-29-3, 789-02-6	Perthane	72-56-0
Diazinon	333-41-5	Phosdrin / Mevinphos	7786-34-7
Dichlorophene	97-23-4	Phosphamidon	13171-21-6
Dicofol	115-32-2	Propethamphos	31218-83-4
Dichlorprop	120-36-5	Profenophos	41198-08-7
Dicrotophos	141-66-2	Silafluofen	105024-66-6
Dieldrine	60-57-1	Strobane	8001-50-1
Dimethoate	60-51-5	Quinalphos	13593-03-8
Dinoseb, its salts and acetate	88-85-7 et. al.	Telodrin / Telodrine	297-78-9
Dinotefuran	165252-70-0	Thiacloprid	111988-49-9
DTTB	63405-99-2	Thiamethoxam	153719-23-4
Endosulfan	115-29-7	Tolyfluand / Tolyfluandide	731-27-1
Endosulfan, α -	959-98-8	Toxaphene	8001-35-2
Endosulfan, β -	33213-65-9	Trifluralin	1582-09-8

Pesticides under observation / 관찰 중인 살충제

Name / 이름	CAS-Nr.
Metam-sodium	137-42-8

Glyphosate and salts / 글리포세이트 및 염류

Name / 이름	CAS-Nr.
e.g. Isopropylammonium- salt, potassium salt, ammonium salt / 예. Isopropylammonium- salt, potassium salt, ammonium salt	1071-83-6 38641-94-0 70901-12-1 40465-66-5 et.al.



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Chlorinated phenols / 염화페놀

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
Pentachlorophenol	87-86-5	2,3-Dichlorophenol	576-24-9
2,3,4,5-Tetrachlorophenol	4901-51-3	2,4-Dichlorophenol	120-83-2
2,3,4,6-Tetrachlorophenol	58-90-2	2,5-Dichlorophenol	583-78-8
2,3,5,6-Tetrachlorophenol	935-95-5	2,6-Dichlorophenol	87-65-0
2,3,4-Trichlorophenol	15950-66-0	3,4-Dichlorophenol	95-77-2
2,3,5-Trichlorophenol	933-78-8	3,5-Dichlorophenol	591-35-5
2,3,6-Trichlorophenol	933-75-5	2-Chlorophenol	95-57-8
2,4,5-Trichlorophenol	95-95-4	3-Chlorophenol	108-43-0
2,4,6-Trichlorophenol	88-06-2	4-Chlorophenol	106-48-9
3,4,5-Trichlorophenol	609-19-8		

Plasticizer/Phthalates / 가소제/프탈레이트

Name / 이름	CAS-Nr.	Acronym
Benzylbutylphthalate	85-68-7	BBP
Dibutylphthalate	84-74-2	DBP
Diethylphthalate	84-66-2	DEP
Dimethylphthalate	131-11-3	DMP
Di-(2-ethylhexyl)phthalate	117-81-7	DEHP
Di-(2-methoxyethyl)phthalate / Di-(2-methoxyethyl)-phthalate	117-82-8	DMEP
Di-C6-8-branched alkylphthalates, C7 rich	71888-89-6	DIHP
Di-C7-11-branched and linear alkylphthalates / Di-C7-11-가지 및 선형 alkylphthalates	68515-42-4	DHNUF
Dicyclohexylphthalate	84-61-7	DCHP
Dihexylphthalates, branched and linear / Dihexylphthalates, 가지 및 선형	68515-50-4	DHxP
Di-iso-butylphthalate	84-69-5	DIBP
Di-iso-hexylphthalate	71850-09-4	DIHxP
Di-iso-octylphthalate	27554-26-3	DIOP
Di-iso-nonylphthalate	28553-12-0, 68515-48-0	DINP
Di-iso-decylphthalate / Di-isodecylphthalate	26761-40-0, 68515-49-1	DIDP
Di-n-propylphthalate	131-16-8	DPrP
Di-n-hexylphthalate	84-75-3	DHP
Di-n-octylphthalate	117-84-0	DNOP
Di-n-nonylphthalate	84-76-4	DNP
Di-pentylphthalate (n-, iso-, or mixed)	131-18-0, 605-50-5, 776297-69-9, 84777-06-0	DPP
1,2-Benzenedicarboxylic acid, di-C6-10 alkyl esters	68515-51-5	
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1	

Organic tin compounds / 유기 주석 화합물

Name / 이름	Acronym	Name / 이름	Acronym
Dibutyltin	DBT	Tetrabutyltin	TeBT
Dimethyltin	DMT	Tetraethyltin	TeET
Diocetyl tin	DOT	Tributyltin	TBT
Diphenyltin	DPhT	Tricyclohexyltin	TCyHT
Dipropyltin	DPT	Trimethyltin	TMT
Monomethyltin	MMT	Triocetyl tin	TOT
Monobutyltin	MBT	Triphenyltin	TPhT
Monooctyltin	MOT	Tripropyltin	TPT
Monophenyltin	MPhT	Tetraocetyl tin	TeOT



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Free and cleavable carcinogenic arylamines / 유리기 및 분리 가능 발암성 아릴아민

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
4-Aminobiphenyl	92-67-1	4,4'-Thiodianiline	139-65-1
Benzidine	92-87-5	o-Toluidine	95-53-4
4-Chloro-o-toluidine	95-69-2	2,4-Toluylenediamine / 2,4-Toluylendiamine	95-80-7
2-Naphthylamine	91-59-8	2,4,5-Trimethylaniline	137-17-7
o-Aminoazotoluene	97-56-3	o-Anisidine (2-Methoxyaniline)	90-04-0
2-Amino-4-nitrotoluene	99-55-8	4-Aminoazobenzene	60-09-3
4-Chloroaniline	106-47-8	2,4-Xylidine	95-68-1
2,4-Diaminoanisole	615-05-4	2,6-Xylidine	87-62-7
4,4'-Diaminodiphenylmethane / 4,4'-Diaminobiphenylmethane	101-77-9	4-Chloro-o-toluidinium chloride	3165-93-3
3,3'-Dichlorobenzidine / 3,3'-Dichlorobenzidine	91-94-1	2,4,5-Trimethylaniline hydrochloride	21436-97-5
3,3'-Dimethoxybenzidine	119-90-4	2-Naphthylammoniumacetate	553-00-4
3,3'-Dimethylbenzidine	119-93-7	2,4-Diaminoanisole sulphate	39156-41-7
4,4'-Methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0	2,5-Diaminotoluene / 2-methyl-p-phenyldiamine	95-70-5
p-Cresidine (6-Methoxy-m-toluidine)	120-71-8	4-Ethoxyaniline / p-phenetidine	156-43-4
4,4'-Methylene-bis-(2-chloroaniline) / 4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	3,3-Diaminobenzidin	91-95-2
4,4'-Oxydianiline	101-80-4		

Free and cleavable carcinogenic arylamines under observation / 관찰 중인 유리기 및 분절 가능한 발암성 아릴아민

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
2-amino-5-nitrothiazole	121-66-4	p-anisidine	104-94-9

Dyestuffs and pigments classified as carcinogenic / 발암성으로 분류된 염료와 안료

C.I. Generic Name	C.I. Structure number	CAS-Nr.
C.I. Acid Red 26	C.I. 16 150	3761-53-3
C.I. Acid Red 114		6459-94-5
C.I. Basic Blue 26 (with $\geq 0.1\%$ Michler's ketone or base)		2580-56-5
C.I. Basic Red 9	C.I. 42 500	569-61-9
C.I. Basic Violet 3 (with $\geq 0.1\%$ Michler's ketone or base)		548-62-9
C.I. Basic Violet 14	C.I. 42 510	632-99-5
C.I. Direct Black 38	C.I. 30 235	1937-37-7
C.I. Direct Blue 6	C.I. 22 610	2602-46-2
C.I. Direct Blue 15		2429-74-5
C.I. Direct Brown 95		16071-86-6
C.I. Direct Red 28	C.I. 22 120	573-58-0
C.I. Disperse Blue 1	C.I. 64 500	2475-45-8
C.I. Disperse Orange 11	C.I. 60 700	82-28-0
C.I. Disperse Yellow 3	C.I. 11 855	2832-40-8
C.I. Pigment Red 104 (Lead chromate molybdate sulphate red)	C.I. 77 605	12656-85-8
C.I. Pigment Yellow 34 (Lead sulfochromate yellow)	C.I. 77 603	1344-37-2
C.I. Solvent Blue 4 with $\geq 0.1\%$ Michler's ketone or base / C.I. Solvent Blue 4 $\geq 0.1\%$ 미힐러 케톤 또는 염기		6786-83-0
C.I. Solvent Yellow 1 (4-Aminoazobenzene / Aniline Yellow)	C.I. 11100	60-09-3
C.I. Solvent Yellow 3 (o-Aminoazotoluene / o-Aminoazotoluol)		97-56-3
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol with $\geq 0.1\%$ Michler's ketone or base / 4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol		561-41-1



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Dyestuffs classified as allergenic / 알러지 유발 염료

<u>C.I. Generic Name</u>	<u>C.I. Structure number</u>	<u>CAS-Nr.</u>
C.I. Disperse Blue 1	C.I. 64 500	2475-45-8
C.I. Disperse Blue 3	C.I. 61 505	2475-46-9
C.I. Disperse Blue 7	C.I. 62 500	3179-90-6
C.I. Disperse Blue 26	C.I. 63 305	3860-63-7
C.I. Disperse Blue 35		12222-75-2
C.I. Disperse Blue 102		12222-97-8, 69766-79-6
C.I. Disperse Blue 106		12223-01-7, 68516-81-4
C.I. Disperse Blue 124		61951-51-7, 15141-18-1
C.I. Disperse Brown 1		23355-64-8
C.I. Disperse Orange 1	C.I. 11 080	2581-69-3
C.I. Disperse Orange 3	C.I. 11 005	730-40-5
C.I. Disperse Orange 37 (= 59 / = 76)	C.I. 11 132	51811-42-8, 13301-61-6, 12223-33-5
C.I. Disperse Orange 59	C.I. 11 132	
C.I. Disperse Orange 76	C.I. 11 132	
C.I. Disperse Red 1	C.I. 11 110	2872-52-8
C.I. Disperse Red 11	C.I. 62 015	2872-48-2
C.I. Disperse Red 17	C.I. 11 210	3179-89-3
C.I. Disperse Yellow 1	C.I. 10 345	119-15-3
C.I. Disperse Yellow 3	C.I. 11 855	2832-40-8
C.I. Disperse Yellow 9	C.I. 10 375	6373-73-5
C.I. Disperse Yellow 39		12236-29-3
C.I. Disperse Yellow 49		54824-37-2

Other banned dyestuffs / 기타 사용금지 염료

<u>C.I. Generic Name</u>	<u>C.I. Structure number</u>	<u>CAS-Nr.</u>
C.I. Acid Violet 49		1694-09-3
C.I. Basic Green 4 (chloride)		569-64-2
C.I. Basic Green 4 (free)		10309-95-2
C.I. Basic Green 4 (oxalate)		2437-29-8, 18015-76-4
C.I. Basic Violet 1		8004-87-3
C.I. Direct Blue 218		28407-37-6
C.I. Disperse Orange 149		85136-74-9
C.I. Disperse Yellow 23	C.I. 26 070	6250-23-3
C.I. Solvent Yellow 2		60-11-7
C.I. Solvent Yellow 14		842-07-9
Navy Blue (Index-Nr. 611-070-00-2; EG-Nr. 405-665-4)		
Solvent Yellow 34 / C.I. Basic Yellow 2 (hydrochloride and free base)		2465-27-2 / 492-80-8

Michler's Ketone / Base / 미힐러 케톤/염기

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
Michler's base / 미힐러 염기	101-61-1	Michler's ketone / 미힐러 케톤	90-94-8



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Chlorinated benzenes and toluenes / 염화벤젠류 및 톨루엔류

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
<u>Chlorobenzenes / 클로로벤젠</u>		<u>Chlorobenzenes / 클로로벤젠</u>	
Chlorobenzene	108-90-7	Dichlorobenzenes	25321-22-6
1,2-Dichlorobenzene	95-50-1	1,3-Dichlorobenzene	541-73-1
1,4-Dichlorobenzene	106-46-7	Trichlorobenzenes	12002-48-1
1,2,3-Trichlorobenzene	87-61-6	1,2,4-Trichlorobenzene	120-82-1
1,3,5-Trichlorobenzene	108-70-3	Tetrachlorobenzenes	12408-10-5
1,2,3,4-Tetrachlorobenzene	634-66-2	1,2,3,5-Tetrachlorobenzene	634-90-2
1,2,4,5-Tetrachlorobenzene	95-94-3	1,2,3,4(or 1,2,4,5)-Tetrachlorobenzene	84713-12-2
Pentachlorobenzene	608-93-5	Hexachlorobenzene	118-74-1
<u>Chlorotoluenes</u>		<u>Chlorotoluenes</u>	
2-Chlorotoluene	95-49-8	2,5-Dichlorotoluene	19398-61-9
4-Chlorotoluene	106-43-4	3,4-Dichlorotoluene	95-75-0
2,4-Dichlorotoluene	95-73-8	2,3,4-Trichlorotoluene	7359-72-0
2,6-Dichlorotoluene	118-69-4	2,3,6-Trichlorotoluene	2077-46-5
3,5-Dichlorotoluene	25186-47-4	2,4,6-Trichlorotoluene	23749-65-7
2,3,5-Trichlorotoluene	56961-86-5	2,3,4,5-Tetrachlorotoluene	1006-32-2, 76057-12-0
2,4,5-Trichlorotoluene	6639-30-1	2,3,5,6-Tetrachlorotoluene	1006-31-1, 29733-70-8
3,4,5-Trichlorotoluene	21472-86-6	Benzyl chloride	100-44-7
2,3,4,6-Tetrachlorotoluene	875-40-1	Benzotrichloride	98-07-7
2,3,4,5,6-Pentachlorotoluene	877-11-2	4-Chlorobenzotrichloride	5216-25-1
3-Chlorotoluene	108-41-8	α-substituted-Chlorotoluenes / α-대체-염화톨루엔	Various
2,3-Dichlorotoluene	32768-54-0		

Polycyclic aromatic hydrocarbons (PAH) / 다환방향족탄화수소(PAH)

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
Acenaphthene / Acenaphthene	83-32-9	Dibenzo[a,h]anthracene	53-70-3
Acenaphthylene	208-96-8	Dibenzo[a,e]pyrene	192-65-4
Anthracene	120-12-7	Dibenzo[a,h]pyrene	189-64-0
Benzo[a]anthracene	56-55-3	Dibenzo[a,i]pyrene	189-55-9
Benzo[a]pyrene	50-32-8	Dibenzo[a,l]pyrene	191-30-0
Benzo[b]fluoranthene	205-99-2	Fluoranthene	206-44-0
Benzo[e]pyrene	192-97-2	Fluorene	86-73-7
Benzo[ghi]perylene	191-24-2	Indeno[1,2,3-cd]pyrene	193-39-5
Benzo[j]fluoranthene	205-82-3	1-Methylpyrene	2381-21-7
Benzo[k]fluoranthene	207-08-9	Naphthalene	91-20-3
Chrysene	218-01-9	Phenanthrene	85-01-8
Cyclopenta[c,d]pyrene	27208-37-3	Pyrene	129-00-0



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Forbidden flame retardant substances / 금지된 난연 물질

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	BTBPE
2,2-Bis(bromomethyl)-1,3-propanediol	3296-90-0	BBMP
Antimony pentoxide	1314-60-9	Sb2O5
Antimony trioxide / 삼산화안티몬	1309-64-4	Sb2O3
Barium diboron tetraoxide	13701-59-2	
Bis(2,3-dibromopropyl)phosphate	5412-25-9	BIS
Bis(2-ethylhexyl) tetrabromophthalate, any of the individual isomers and/or combinations thereof / Bis(2-ethylhexyl) tetrabromophthalate, 개별 이성질체 및/또는 이들의 조합	Various	TBPH
Boric acid	10043-35-3, 11113-50-1	
Decabromobiphenyl	13654-09-6	DecaBB
Decabromodiphenylether	1163-19-5	DecaBDE
Diboron trioxide	1303-86-2	
Dibromobiphenyls	various	DiBBs
Dibromodiphenylethers	various	DiBDEs
Disodium octaborate	12008-41-2	
Disodium tetraborate	1303-96-4, 1330-43-4, 12179-04-3	
Heptabromobiphenyls	various	HeptaBBs
Heptabromodiphenylethers	various, 68928-80-3	HeptaBDEs
Hexabromobiphenyls	various	HexaBBs
Hexabromocyclododecane and all main diastereomeres identified (alpha-, beta-, gamma-) / Hexabromocyclododecane 및 확인된 모든 주요 부분입체 이성질체 (alpha-, beta-, gamma-)	various, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4	HBCDD
Hexabromodiphenylethers	various, 36483-60-0	HexaBDEs
Monobromobiphenyls	various	MonoBBs
Monobromodiphenylethers	various	MonoBDEs
Nonabromobiphenyls	various	NonaBBs
Nonabromodiphenylethers	various, 63936-56-1	NonaBDEs
Octabromobiphenyls	various	OctaBBs
Octabromodiphenylethers	various, 32536-52-0	OctaBDEs
Pentabromobiphenyls	various	PentaBBs
Pentabromodiphenylethers	various, 32534-81-9	PentaBDEs
Polybrominated diphenyl ethers	various	PBDEs
Polybromobiphenyls (Polybrominated biphenyls)	59536-65-1	PBBs
Tetraboron disodium heptaoxide, hydrate	12267-73-1	
Tetrabromobiphenyls	various	TetraBBs
Tetrabromobisphenol A	79-94-7	TBBPA
Tetrabromodiphenylethers	various, 40088-47-9	TetraBDEs
Tri(2,3-dibromopropyl)phosphate / Tri(2,3-dibromopropyl)-phosphate	126-72-7	TRIS
Tri-o-cresyl phosphate	78-30-8	
Tribromobiphenyls	various	TriBBs
Tribromodiphenylethers	various	TriBDEs
Tris(1,3-dichloro-iso-propyl)phosphate	13674-87-8	TDCPP
Tris(2-chloroethyl)phosphate	115-96-8	TCEP
Tris(aziridinyl)phosphin oxide	545-55-1	TEPA
Trixylylphosphate	25155-23-1	TXP
Zinc borate salts	1332-07-6, 12767-90-7	

Solvent residues / 잔류 솔벤트

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
1-Methyl-2-pyrrolidone	872-50-4	NMP
N,N-Dimethylacetamide	127-19-5	DMAC
N,N-Dimethylformamide	68-12-2	DMF
Formamide	75-12-7	

Surfactant, wetting agent residues, alkyl phenols / 잔류 계면 활성제, 습윤제, 알킬페놀

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
4-tert-butylphenol	98-54-4	BP
Nonylphenol	various	NP
Octylphenol	various	OP
Heptylphenol	various	HpP
Pentylphenol	various	PeP
Nonylphenoethoxylates	various	NP(EO)
Octylphenoethoxylates	various	OP(EO)



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Other chemical residues / 기타 잔류 화학물질

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	
Bisphenol S (4,4'-Sulfonyldiphenol)	80-09-1	
Melamine / 멜라민	108-78-1	
Aniline	62-53-3	
Benzene	71-43-2	
Bisphenol A (4,4'-Isopropylidenediphenol)	80-05-7	BPA
Bisphenol B (4,4'-(1-methylpropylidene)bisphenol)	77-40-7	BPB
Azodicarbonamide / Diazene-1,2-dicarboxamide	123-77-3	ADCA
Dimethylfumarate	624-49-7	DMFu
2-Mercaptobenzothiazole / 2-Mercaptobenzothiazol	149-30-4	2-MTB
N-(hydroxymethyl)acrylamide	924-42-5	
Phenol	108-95-2	
o-Phenylphenol	90-43-7	OPP
Quinoline (Chinoline / Benzo[b]pyridine)	91-22-5	
Tris(2-methoxyethoxy)vinylsilane	1067-53-4	
Tris(4-nonylphenyl, branched and linear)phosphite with 0.1% w/w of 4-nonylphenol, branched and linear / Tris(4-nonylphenyl, 가지 및 선형)phosphite 0.1% w/w of 4-nonylphenol 포함, 가지 및 선형	various	TNPP
Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	
Bis(4-chlorophenyl) sulphone	80-07-9	

Chemical residues under observation / 관찰 중인 화학 잔류물

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
2,4,6-tri-tert-butylphenol / 2,4,6-tri-tert-butylphenol	732-26-3	Methylisothiazolinone	2682-20-4
Bisphenol AF (4,4'-(1,1,1,3,3,3-Hexafluoropropane-2,2-diyl)diphenol)	1478-61-1	N-ethyl-2-pyrrolidone/NEP	2687-91-4
Bisphenol F (4,4'-Methylenediphenol)	620-92-8	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol / 2-phenylpropene 과 phenol 올리고머화 및 알킬화 반응 생성물	various
Drometrizole	2440-22-4		

UV stabilizers / UV 안정제

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
2-Benzotriazol-2-yl-4,6-di-tert-butylphenol	3846-71-7	UV 320
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol / 2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	UV 329
2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	36437-37-3	UV 350
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol	25973-55-1	UV 328
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	3864-99-1	UV 327
Bumetrizole / Bumetrizole	3896-11-5	UV 326

Chlorinated paraffins / 염화 파라핀

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
Short chain chlorinated paraffins (C10 - C13)	85535-84-8	SCCP
Medium chain chlorinated paraffins (C14 - C17)	85535-85-9, 198840-65-2, MCCP 1372804-76-6	

Siloxanes / 실록산

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
Octamethylcyclotetrasiloxane	556-67-2	D4
Decamethylcyclopentasiloxane	541-02-6	D5
Dodecamethylcyclohexasiloxane	540-97-6	D6



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N-Nitrosamines; N-nitrosatable substances / N-나이트로사민;N-나이트로사이트된 물질

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
N-Nitrosodibenzylamine	5336-53-8	NDBzA
N-Nitrosodibutylamine	924-16-3	NDBA
N-Nitrosodiethanolamine	1116-54-7	NDELA
N-Nitrosodiethylamine	55-18-5	NDEA
N-Nitrosodiisobutylamine	997-95-5	NDiBA
N-Nitrosodiisononylamine	1207995-62-7	NDiNA
N-Nitrosodiisopropylamine	601-77-4	NDiPA
N-Nitrosodimethylamine	62-75-9	NDMA
N-Nitrosodipropylamine	621-64-7	NDPA
N-Nitrosomethylethylamine	10595-95-6	NMEA
N-Nitrosomorpholine	59-89-2	NMOR
N-Nitroso-N-ethyl-N-phenylamine	612-64-6	NEPhA
N-Nitroso-N-methyl-N-phenylamine	614-00-6	NMPPhA
N-Nitroso-piperidine	100-75-4	NPIP
N-Nitroso-pyrrolidine	930-55-2	NPYR



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PFAS, Per- and polyfluoroalkylsubstances / PFAS, 과불화화합물

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
<u>PFOA and salts / PFOA 및 염류</u>		
Perfluorooctanoic acid and salts / 퍼플루오로옥탄산 및 염류	335-67-1, et. al.	PFOA
<u>PFOA related Substances / PFOA 와 관련된 물질</u>		
1H,1H,2H,2H-Perfluoro-1-decanol	678-39-7	8:2 FTOH
1H,1H,2H,2H-Perfluorodecyl acrylate	27905-45-9	8:2 FTA
1H,1H,2H,2H-Perfluorodecanesulphonic acid and its salts	39108-34-4, et. al.	8:2 FTS
<u>C9-C14 PFCA</u>		
Perfluorononanoic acid and salts	375-95-1, et. al.	PFNA
Perfluorodecanoic acid and salts	335-76-2, et. al.	PFDA
Henicosafleuroundecanoic acid and salts	2058-94-8, et. al.	PFUdA
Tricosafleurododecanoic acid and salts	307-55-1, et. al.	PFDoA
Pentacosafleurotridecanoic acid and salts	72629-94-8, et. al.	PFTTrDA
Heptacosafleurotetradecanoic acid and salts	376-06-7, et. al.	PFTeDA
Perfluoro(3,7-dimethyloctanoic acid) and salts	172155-07-6, et. al.	PF-3,7-DMOA
<u>Further PFCAs / 추가 PFCAs</u>		
Perfluorobutanoic acid and salts	375-22-4, et. al.	PFBA
Perfluoropentanoic acid and salts	2706-90-3, et. al.	PFPeA
Perfluorohexanoic acid and salts	307-24-4, et. al.	PFHxA
Perfluoroheptanoic acid and salts	375-85-9, et. al.	PFHpA
<u>C9-C14 PFCAs related substances / C9-C14 PFCAs 관련 물질</u>		
Henicosafleurodecane sulfonic acid and salts	335-77-3, et. al.	PFDS
2H,2H,3H,3H-Perfluoroundecanoic acid and salts	34598-33-9, et. al.	4HPFUnA
1H,1H,2H,2H-Perfluoro-1-decanol	678-39-7	8:2 FTOH
1H,1H,2H,2H-Perfluoro-1-dodecanol	865-86-1	10:2 FTOH
1H,1H,2H,2H-Perfluorodecyl acrylate	27905-45-9	8:2 FTA
1H,1H,2H,2H-Perfluorododecyl acrylate	17741-60-5	10:2 FTA
<u>PFOS and related / PFOS 및 관련</u>		
Perfluorooctane sulfonic acid and sulfonates	1763-23-1, et. al.	PFOS
Perfluorooctane sulfonamide	754-91-6	PFOSA
Perfluorooctane sulfonfluoride	307-35-7	PFOSF / POSF
N-Methyl perfluorooctane sulfonamide	31506-32-8	N-Me-FOSA
N-Ethyl perfluorooctane sulfonamide	4151-50-2	N-Et-FOSA
N-Methyl perfluorooctane sulfonamide ethanol	24448-09-7	N-Me-FOSE
N-Ethyl perfluorooctane sulfonamide ethanol	1691-99-2	N-Et-FOSE
<u>Perfluorinated sulfonic acids</u>		
Perfluorobutane sulfonic acid and salts	375-73-5, 59933-66-3, et. al.	PFBS
Perfluorohexane sulfonic acid and salts	355-46-4, et. al.	PFHxS
Perfluoroheptane sulfonic acid and salts	375-92-8, et. al.	PFHpS
Henicosafleurodecane sulfonic acid and salts	335-77-3, et. al.	PFDS
<u>PFHxS and salts / PFHxS 및 염류</u>		
Perfluorohexane sulfonic acid and salts	355-46-4, et. al.	PFHxS
<u>Esters of fluorinated alcohols with acrylic acid / 아크릴산과 불소화 알코올의 에스테르</u>		
1H,1H,2H,2H-Perfluorooctyl acrylate	17527-29-6	6:2 FTA
1H,1H,2H,2H-Perfluorodecyl acrylate	27905-45-9	8:2 FTA
1H,1H,2H,2H-Perfluorododecyl acrylate	17741-60-5	10:2 FTA
<u>Partially fluorinated carboxylic / sulfonic acids / Partially fluorinated carboxylic / sulfonic acids</u>		
1H,1H,2H,2H-Perfluorooctane sulfonic acid and salts	27619-97-2, et. al.	6:2 FTS
7H-Perfluoro heptanoic acid and salts	1546-95-8, et. al.	7HPFHpA
2H,2H,3H,3H-Perfluoroundecanoic acid and salts	34598-33-9, et. al.	4HPFUnA
<u>Partially fluorinated carboxylic / sulfonic acids under observation / Partially fluorinated carboxylic / sulfonic acids 관찰중</u>		
2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid , its salts and its acyl halides / 2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid , 그 염류 및 acyl halides	13252-13-6, et. al.	HFPO-DA
<u>Partially fluorinated linear alcohols / 부분적으로 불소화된 선형 알코올</u>		
1H,1H,2H,2H-Perfluoro-1-hexanol	2043-47-2	4:2 FTOH
1H,1H,2H,2H-Perfluoro-1-octanol	647-42-7	6:2 FTOH
1H,1H,2H,2H-Perfluoro-1-decanol	678-39-7	8:2 FTOH
1H,1H,2H,2H-Perfluoro-1-dodecanol	865-86-1	10:2 FTOH



STANDARD
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Chlorinated solvents / 염화 솔벤트

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
Dichloromethane	75-09-2	1,1,1,2-Tetrachloroethane	630-20-6
Trichloromethane (Chloroform)	67-66-3	1,1,2,2-Tetrachloroethane	79-34-5
Tetrachloromethane	56-23-5	Pentachloroethane	76-01-7
1,1-Dichloroethane	75-34-3	1,1-Dichloroethylene	75-35-4
1,2-Dichloroethane	107-06-2	1,2-Dichloroethylene	540-59-0, 156-59-2, 156-60-5
1,1,1-Trichloroethane	71-55-6	Trichloroethylene	79-01-6
1,1,2-Trichloroethane	79-00-5	Tetra(per)chloroethylene	127-18-4

Other VOCs (volatile organic compounds) and glycols / 기타 VOCs (휘발성 유기 화합물) 및 글리콜

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
Acetophenone	98-86-2	2-Methoxyethylacetate / 2-Methoxyethylacetate	110-49-6
Benzene	71-43-2	2-Methoxypropanol / 2-Methoxypropano	1589-47-5
Bis(2-methoxyethyl)ether	111-96-6	2-Methoxypropylacetate	70657-70-4
Cyclohexanone	108-94-1	Methylethylketone	78-93-3
1,2-Diethoxyethane / 1,2-Diethoxyethan	629-14-1	Naphthalene	91-20-3
1,4-dioxane	123-91-1	2-Phenyl-2-propanole	617-94-7
2-Ethoxyethanol	110-80-5	Styrene	100-42-5
2-Ethoxyethylacetate	111-15-9	Toluene / 톨루엔	108-88-3
Ethylbenzene	100-41-4	1,2,3-Trichloropropane	96-18-4
Ethylene glycol dimethyl ether	110-71-4	Triethylene glycol dimethyl ether	112-49-2
2-Methoxyethanol	109-86-4	Xylene	95-47-6, 108-38-3, 106-42-3, 1330-20-7 (mixture / 혼합물)

Cresols / 크레졸

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
o-Cresol	95-48-7	p-Cresol	106-44-5
m-Cresol	108-39-4		

Heavy Metals / 중금속

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
Sb (Antimony / 안티몬)	7440-36-0, et. al.	Ni (Nickel / 니켈)	7440-02-0, et. al.
As (Arsenic / 비소)	7440-38-2, et. al.	Hg (Mercury / 수은)	7439-97-6, et. al.
Pb (Lead / 납)	7439-92-1, et. al.	Ba (Barium / 바륨)	7440-39-3, et. al.
Cd (Cadmium / 카드뮴)	7440-43-9, et. al.	Mn (Manganese / 망간)	7439-96-5, et. al.
Cr (Chromium / 크롬)	7440-47-3, et. al.	Se (Selenium / 셀레늄)	7782-49-2, et. al.
Co (Cobalt / 코발트)	7440-48-4, et. al.	Zn (Zinc / 아연)	7440-66-6, et. al.
Cu (Copper / 구리)	7440-50-8, et. al.		

Emission of volatiles / 휘발성 물질 방출

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
Formaldehyde / 포름알데히드	50-00-0	4-Phenylcyclohexene / 4-Phenylcyclohexene	4994-16-5
Toluene / Toluene	108-88-3	Butadiene / Butadiene	106-99-0
Styrene / Styrene	100-42-5	Vinylchloride / Vinylchloride	75-01-4
4-Vinylcyclohexene / 4-Vinylcyclohexene	100-40-3		