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4 Annex

For a compilation of individual substances and CAS numbers, please see Annex 5 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.

Limit values and fastness

The testing procedures are described in a separate document

부록

개별 물질 및 CAS 번호에 대한 편집은 본 표준 문서의 부록 5를 참조하십시오.

제한 수치 표

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

한계값 및 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 값¹	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 방출	n.d. / n.d.(불검출) ²	75	150	300
Extractable (heavy) metals / 용출 (중)금속 [mg/kg]				
As (Arsenic / 비소)	0.2	1.0	1.0	1.0
Ba (Barium / 바륨)	1000	1000	1000	1000
Cd (Cadmium / 카드뮴)	0.1	0.1	0.1	0.1
Co (Cobalt / 코발트)	1.0	4.0	4.0	4.0
Cr (VI) (Chromium (VI) / 크롬 (VI))	0.5	0.5	0.5	0.5
Cr (Chromium / 크롬)	1.0	2.0	2.0	2.0
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
Ni (Nickel / 니켈) ⁴	1.0 ⁵	4.0 ⁶	4.0 ⁶	4.0 ⁶
Pb (Lead / 납)	0.2	1.0 ⁷	1.0 ⁷	1.0 ⁷
Sb (Antimony / 안티몬)	30.0	30.0	30.0	
Se (Selenium / 셀레늄)	100	100	100	100
Heavy metals total content / 중금속 총 함량 [mg/kg]				
As (Arsenic / 비소)	100	100	100	100
Cd (Cadmium / 카드뮴)	40.0	40.0 ⁷	40.0 ⁷	40.0 ⁷
Hg (Mercury / 수은)	0.5	0.5	0.5	0.5
Pb (Lead / 납)	90.0	90.0 ⁷	90.0 ⁷	90.0 ⁷
Pesticides / 살충제 [mg/kg]⁸				
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

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; 중탄산칼슘/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, 항목 27의 요구 사항 포함

⁵ For metallic accessories and metallized surfaces: 0.5 mg/kg / 금속 장식류와 금속 표면 처리된 제품: 0.5 mg/kg

⁶ For metallic accessories and metallized surfaces: 1.0 mg/kg / 금속 장식류와 금속 표면 처리된 제품: 1.0 mg/kg



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- 7 For accessories made from glass: 0.1% (1000 mg/kg) / 유리로 만든 액세서리 제품 : 0.1% (1000 mg/kg)
- 8 For natural fibres only / 천연섬유만



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Chlorinated phenols / 염화페놀 [mg/kg]				
Pentachlorophenol (PCP)	0.05	0.5	0.5	0.5
Tetrachlorophenols (TeCP), Sum / 합계	0.05	0.5	0.5	0.5
Trichlorophenols (TrCP), Sum / 합계	0.2	2.0	2.0	2.0
Dichlorophenols (DCP), Sum / 합계	0.5	3.0	3.0	3.0
Monochlorophenols (MCP), Sum / 합계	0.5	3.0	3.0	3.0
Plasticizer/Phthalates / 가소제/프탈레이트 [mg/kg] 9				
Sum / 합계	500	500	500	
Sum without DINP / DINP 를 제외한 합계				1000
Organic tin compounds / 유기 주석 화합물 [mg/kg]				
TBT, TPhT	0.5	1.0	1.0	1.0
DBT, DMT, DOT, DPhT, DPT, MBT, MOT, MMT, MPhT, TeBT, TeET, TCyHT, TMT, TOT, TeOT, TPT	1.0	2.0	2.0	2.0
Other chemical residues / 기타 잔류 화학물질 [mg/kg]				
Aniline / 아닐린 10	20	50	50	50
Azodicarbonamide / Diazene-1,2-dicarboxamide	1000	1000	1000	1000
Benzene	5.0	5.0	5.0	5.0
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
Chemical residues under observation / 관찰 중인 화학 잔류물	u.o. / 관찰중			
Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide	1000	1000	1000	1000
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	1000	1000	1000	1000
DMFu	0.1	0.1	0.1	0.1
Free and cleavable carcinogenic arylamines except aniline / 아닐린을 제외한 유기기 및 분리 가능한 발암성 아릴아민계 11 10	20	20	20	20
Free and cleavable carcinogenic arylamines under observation / 관찰 중인 유기기 및 분리 가능한 발암성 아릴아민계	u.o. / 관찰중			
Melamine / 멜라민 12	1000	1000	1000	1000
2-Mercaptobenzothiazole	1000	1000	1000	1000
N-(hydroxymethyl)acrylamide	1000	1000	1000	1000
OPP	10	25	25	25
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-노닐페닐, 분지형 및 선형) phosphite(TNPP), ≥ 0.1% w/w의 4-nonylphenol, 분지형 및 선형 포함	1000	1000	1000	1000
Colourants / 착색제 [mg/kg]				
Allergens / 알레젠	50	50	50	50
Aniline / 아닐린 10	20	50	50	50
Carcinogens / 발암물질	50	50	50	50
Free and cleavable carcinogenic arylamines except aniline / 아닐린을 제외한 유기기 및 분리 가능한 발암성 아릴아민계 10	20	20	20	20
Free and cleavable carcinogenic arylamines under observation / 관찰 중인 유기기 및 분질 가능한 발암성 아릴아민 10	u.o. / 관찰중			
Michler's Ketone / Base / 미힐러 케톤/염기 each / 개별	1000	1000	1000	1000
Navy Blue / 네이비 블루	not used / 사용하지 않음			
Others / 기타	50	50	50	50



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- 9 For coated articles, plastisol prints, flexible foams, and accessories made from plastics / 코팅된 제품, 플라스티졸 프린트, 연질 폼, 플라스틱으로 만들어진 액세서리에 적용
- 10 May also be present as residues / 잔류물로 존재할 수도 있음
- 11 For all materials containing polyurethane or other materials which may contain free carcinogenic arylamines / 폴리우레탄을 함유한 모든 물질 또는 무독성 아릴아민계를 포함하는 물질
- 12 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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Chlorinated benzenes and toluenes / 염화벤젠류 및 톨루엔류 [mg/kg]				
Sum / 합계	1.0	1.0	1.0	1.0
Polycyclic aromatic hydrocarbons (PAH) / 다환방향족탄화수소(PAHs) [mg/kg] ¹³				
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
Sum / 합계	5.0	10.0	10.0	10.0
Biological active products / 생리 활성 제품				
	no intentional use / 의도적인 사용이 아님 ¹⁴			
Flame retardant products / 난연 제품				
General / 일반	no intentional use / 의도적인 사용이 아님 10 mg/kg; each / 개별 ^{14 15} Sum of all / 총합계 50 mg/kg			
Solvent residues / 솔벤트 잔류 [mg/kg] ¹⁶				
1,4-dioxane	10	10	10	10
DMAc ¹⁷	500 1000 ¹⁸	500 1000 ¹⁸	500 1000 ¹⁸	500 1000 ¹⁸
DMF ¹⁷	500 1000 ¹⁸	500 1000 ¹⁸	500 1000 ¹⁸	500 1000 ¹⁸
Formamide / 폼아미드	200	200	200	200
NMP ¹⁷	500 1000 ¹⁸	500 1000 ¹⁸	500 1000 ¹⁸	500 1000 ¹⁸
Surfactant, wetting agent residues, alkyl phenols / 잔류 계면 활성제, 습윤제 [mg/kg]				
BP, NP, OP, HpP, PeP, NP(EO), OP(EO); (Sum / 합계)	100.0	100.0	100.0	100.0
BP, NP, OP, HpP, PeP (Sum / 합계)	10.0	10.0	10.0	10.0

¹³ For all synthetic fibres, yarns, or threads and for plastic materials / 모든 인조 섬유, 원사 또는 재봉사와 플라스틱 재료에 적용

¹⁴ With exception of treatments accepted by OEKO-TEX® (see actual list on www.oeko-tex.com) / OEKO TEX® 허용하는 처리제 이외에도 (실제 목록은 www.oeko-tex.com 참조)

¹⁵ Accepted flame retardant products do not contain any of the banned flame retardant substances listed in Annex 5 as active agent / 허용되는 난연제품에는 부록 5에 활성제로 기재된 금지된 난연 물질이 함유되어 있지 않음

¹⁶ 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 용제가 사용된 섬유, 원사, 원단 그리고 코팅된 제품(예. 인조가죽) 및 폼(EVA, PVC)에 적용

¹⁷ 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 3.0 % / 이후의 산업 생산 단계를 반드시 거쳐야 하는 제품은 제외 (습식 또는 건조 단계에서의 열처리 또는 다른 공정도 가능): 최대허용수치 3.0 %

¹⁸ 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, 아라미드 및 코팅(PU-, PVC-, PVC-플라스티솔-, PVDC-, PVC-공중합체)된 섬유.



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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] ¹⁹	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 관련 물질 Sum / 총합 [µg/kg]	260	260	260	260
PFOS and related / PFOS 및 관련 sum / 합계 [µg/m ²]	1	1	1	1
Perfluorinated sulfonic acids / Perfluorinated sulfonic acids sum / 합계 [µg/kg]	50	250	250	250
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 [µg/kg]	250	250	250	250
Partially fluorinated carboxylic / sulfonic acids / Partially fluorinated carboxylic / sulfonic acids sum / 합계 [µg/kg]	50	250	250	250
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
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, UV 329, UV 350; each / 개별	1000	1000	1000	1000
Chlorinated paraffins / 염화파라핀 [mg/kg]				
SCCP, MCCP / SCCP, MCCP Sum / 합계	50	50	50	50
Siloxanes / 실록산 [mg/kg]				
D4, D5, D6; each / 개별	1000	1000	1000	1000
N-Nitrosamines; each / 개별 [mg/kg]				
N-nitrosatable substances / N-나이트로사이트된 물질; Sum / 합계 [mg/kg]	0.5	0.5	0.5	0.5
Chlorinated solvents / 염화 솔벤트 [mg/kg] ^{20*}				
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

¹⁹ 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 가지 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 카르복실산(염류, 에스테르, 할로겐화물 및 무수물 포



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함) ≥ 8 과불소화 탄소 . 또한 규정 VO (EU) 2019/1021 의 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.

²⁰ 2024 is transition period / 2024 전환 기간



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The testing procedures are described in a separate document

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Product Class / 제품 등급	I Baby / 유아	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
Other VOCs and glycols / 기타 VOCs 및 글리콜 [mg/kg] ^{20 21*}				
1-Methyl-2-pyrrolidone (NMP)	refer to solvent residues / 솔벤트 잔류 참조			
1,2-Diethoxyethane	10.0	10.0	10.0	10.0
1,2,3-Trichloropropane	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
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
2-Phenyl-2-propanol	10.0	10.0	10.0	10.0
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
Ethylbenzene	10.0	10.0	10.0	10.0
Ethylene glycol dimethyl ether	10.0	10.0	10.0	10.0
Methylethylketone	10.0	10.0	10.0	10.0
Naphthalene	2.0	2.0	2.0	2.0
N,N-Dimethylacetamide (DMAc)	refer to solvent residues / 잔류 솔벤트 참조			
N,N-Dimethylformamide (DMF)	refer to solvent residues / 솔벤트 잔류 참조			
Styrene / 스티렌	10.0	10.0	10.0	10.0
Toluene / 톨루엔	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] ²⁰				
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 ^{22 23}	4	4	4	4
To saliva and perspiration / 침과 땀 견뢰도	fast / 견고			
Emission of volatiles / 휘발성 방출 [mg/m³] ²⁴				
Formaldehyde / 포름알데히드	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 / 부타디엔	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 ²⁵				
GMO Genetically modified organisms / GMO 유전자 변형 유기체	No intentional use / 의도적으로 사용하지 않음			
GMO quantitative analysis / GMO 정량적 분석 [%] ²⁶	5	5	5	5
Determination of odours /취기 시험				
General / 일반	no abnormal odour / 비정상 악취 ²⁷			



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Product Class / 제품 등급	I Baby / 유아	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
SNV 195 651 (Modified / 개정) ²⁴	3	3	3	3
Banned fibres / 금지된 섬유				
Asbestos / 석면	No intentional use / 의도적으로 사용하지 않음			
synthetic polymer microplastics in decorative articles / 장식용 제 품의 합성 미세 플라스틱 ²⁸	No intentional use / 의도적으로 사용하지 않음			

- ²⁰ 2024 is transition period / 2024 전환 기간
- ²¹ 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 구성 요소 등)에는 적용되지 않음.
- ²² No requirements for 'wash-out' - articles / '워시-아웃' -제품엔 해당하지 않음
- ²³ For pigment, vat or sulphurous colourants a minimum grade of colour fastness to rubbing of 3 (dry) is acceptable / 안료, 건염, 황화 염료는 (건) 마찰 견뢰도 3등급까지 허용
- ²⁴ 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
- ²⁵ Refer also to item 5.5. of this standard / 본 표준의 5.5 항목 참조
- ²⁶ 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 정성적 방법이 수행됩니다. GMO가 검출되면 정량법을 실시할 수 있습니다(면화에 한함).
- ²⁷ 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
- ²⁸ as defined by (EC) 1907/2006 Annex XVII Nr.78 / (EC) 1907/2006 Annex XVII Nr.78에 정의한 바와 같이



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5 Annex

부록

Compilation of the individual substances for Annex 4 부록 4에 대한 개별 물질의 편집

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	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 / Kelevane	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 / Tributyltin	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 / 다이아지논	333-41-5	Phosdrin / Mevinphos	7786-34-7
Dichlorophene	97-23-4	Phosphamidon	13171-21-6
Dichlorprop	120-36-5	Propethamphos	31218-83-4
Dicofol	115-32-2	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	297-78-9
Dinotefuran	165252-70-0	Thiacloprid	111988-49-9
DTTB	63405-99-2	Thiamethoxam	153719-23-4
Endosulfan	115-29-7	Tolyfluanid / Tolyfluanide	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	68515-42-4	DHNUF
Dicyclohexylphthalate	84-61-7	DCHP
Dihexylphthalates, branched and linear / Dihexylphthalates, 분지형 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	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	Tetraoctyltin	TeOT
Monophenyltin	MPhT	Tripropyltin	TPT



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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'-Dichlorobenzidene	91-94-1	2,4-Diaminoanisole sulphate	39156-41-7
3,3'-Dimethoxybenzidine	119-90-4	3,3-Diaminobenzidin	91-95-2
3,3'-Dimethylbenzidine	119-93-7	2,5-Diaminotoluene / 2-methyl-p-phenylenediamine	95-70-5
4,4'-Methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0	4-Ethoxyaniline / p-phenetidine	156-43-4
p-Cresidine (6-Methoxy-m-toluidine) / p-Cresidine	120-71-8	2-Naphthylammoniumacetate	553-00-4
4,4'-Methylene-bis-(2-chloroaniline) / 4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	2,4,5-Trimethylaniline hydrochloride	21436-97-5
4,4'-Oxydianiline	101-80-4		

Free and cleavable carcinogenic arylamines under observation / 관찰 중인 유리기 및 분리 가능 발암성 아릴아민

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

Dyestuffs and pigments classified as carcinogenic / 발암성으로 분류된 염료 및 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 ≥ 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 ≥ 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 ≥ 0.1 % Michler's ketone or base		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 ≥ 0.1 % Michler's ketone or base		561-41-1



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Dyestuffs classified as allergenic / 알레르기 유발 염료

C.I. Generic Name

C.I. Disperse Blue 1
C.I. Disperse Blue 3
C.I. Disperse Blue 7
C.I. Disperse Blue 26
C.I. Disperse Blue 35
C.I. Disperse Blue 102

C.I. Disperse Blue 106

C.I. Disperse Blue 124

C.I. Disperse Brown 1
C.I. Disperse Orange 1
C.I. Disperse Orange 3
C.I. Disperse Orange 37 (= 59 / = 76)

C.I. Disperse Orange 59
C.I. Disperse Orange 76
C.I. Disperse Red 1
C.I. Disperse Red 11
C.I. Disperse Red 17
C.I. Disperse Yellow 1
C.I. Disperse Yellow 3
C.I. Disperse Yellow 9
C.I. Disperse Yellow 39
C.I. Disperse Yellow 49

C.I. Structure number

C.I. 64 500
C.I. 61 505
C.I. 62 500
C.I. 63 305

C.I. 11 080
C.I. 11 005
C.I. 11 132

C.I. 11 132
C.I. 11 132
C.I. 11 110
C.I. 62 015
C.I. 11 210
C.I. 10 345
C.I. 11 855
C.I. 10 375

CAS-Nr.

2475-45-8
2475-46-9
3179-90-6
3860-63-7
12222-75-2
12222-97-8
69766-79-6
12223-01-7
68516-81-4
15141-18-1
61951-51-7
23355-64-8
2581-69-3
730-40-5
51811-42-8,
13301-61-6,
12223-33-5

Other banned dyestuffs / 기타 금지된 염료

C.I. Generic Name

C.I. Basic Green 4 (chloride)
C.I. Basic Green 4 (free)
C.I. Basic Green 4 (oxalate)

C.I. Basic Yellow 2 / Solvent Yellow 34 (hydrochloride and free base)

C.I. Disperse Orange 149
C.I. Disperse Yellow 23
Navy Blue (Index-Nr. 611-070-00-2; EG-Nr. 405-665-4)

C.I. Structure number

C.I. 26 070

CAS-Nr.

569-64-2
10309-95-2
2437-29-8,
18015-76-4
2465-27-2 /
492-80-8
85136-74-9
6250-23-3

Michler's Ketone/Base / 미힐러 케톤/염기

Name

Michler's base / 미힐러 염기
Michler's ketone / 미힐러 케톤

CAS-Nr.

101-61-1
90-94-8



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Chlorinated benzenes and toluenes / 염화벤젠류와 톨루엔류

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
<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 / 1,2,3,4(또는 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	Various
2,3-Dichlorotoluene	32768-54-0		

Polycyclic aromatic hydrocarbons (PAH) / 다환방향족탄화수소(PAH)

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
Acenaphthene / Acenaphtene	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
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 / 붕산	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
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 / 붕산아연 염류	1332-07-6, 12767-90-7	

Solvent residues / 솔벤트 잔류

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

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

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



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Other chemical residues / 기타 잔류 화학물질

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

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

Chlorinated solvents / 염화 솔벤트

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
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
Tetrachloroethane	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



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

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
Acetophenone	98-86-2	2-Methoxyethylacetate / 2-Methoxyethylacetate	110-49-6
Benzene	71-43-2	2-Methoxypropanol / 2-Methoxypropanol	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

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

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	NMPhA
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	335-67-1, et. al.	PFOA
<u>PFOA related Substances / PFOA 관련 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</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



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Heavy Metals / 중금속

Name / 이름

Sb (Antimony / 안티몬)

As (Arsenic / 비소)

Pb (Lead / 납)

Cd (Cadmium / 카드뮴)

Cr (Chromium / 크롬)

Co (Cobalt / 코발트)

CAS-Nr.

7440-36-0, et. al.

7440-38-2, et. al.

7439-92-1, et. al.

7440-43-9, et. al.

7440-47-3, et. al.

7440-48-4, et. al.

Name / 이름

Cu (Copper / 구리)

Ni (Nickel / 니켈)

Hg (Mercury / 수은)

Ba (Barium / 바륨)

Se (Selenium / 셀레늄)

CAS-Nr.

7440-50-8, et. al.

7440-02-0, et. al.

7439-97-6, et. al.

7440-39-3, et. al.

7782-49-2, et. al.