



STANDARD  
100

## 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 / 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
<b>pH value / pH 값<sup>1</sup></b>	4.0 - 7.5	4.0 - 7.5	4.0 - 9.0	4.0 - 9.0
<b>Formaldehyde / 포름알데히드 [mg/kg]</b>				
Free and partially releasable / 없으며 일부 검출	n.d. <sup>2</sup>	75	150	300
<b>Extractable (heavy) metals / 용출 (중)금속 [mg/kg]</b>				
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 <sup>4</sup>	50.0 <sup>4</sup>	50.0 <sup>4</sup>	50.0 <sup>4</sup>
Hg (Mercury / 수은)	0.02	0.02	0.02	0.02
Ni (Nickel / 니켈) <sup>5</sup>	1.0 <sup>6</sup>	4.0 <sup>7</sup>	4.0 <sup>7</sup>	4.0 <sup>7</sup>
Pb (Lead / 납)	0.2	1.0 <sup>3</sup>	1.0 <sup>3</sup>	1.0 <sup>3</sup>
Sb (Antimony / 안티몬)	30.0	30.0	30.0	
Se (Selenium / 셀레늄)	100	100	100	100
<b>Heavy metals total content / 중금속 총 함량 [mg/kg]</b>				
As (Arsenic / 비소)	100	100	100	100
Cd (Cadmium / 카드뮴)	40.0	40.0 <sup>3</sup>	40.0 <sup>3</sup>	40.0 <sup>3</sup>
Hg (Mercury / 수은)	0.5	0.5	0.5	0.5
Pb (Lead / 납)	90.0	90.0 <sup>3</sup>	90.0 <sup>3</sup>	90.0 <sup>3</sup>

<sup>1</sup> Exceptions for products which must be treated wet during the further processing: 4.0 - 10.5; for foams: 4.0 - 9.0; for film materials (e.g. polyolefin films) with incorporated Calciumbicarbonate/carbonate or talc, which do not have directly contact to skin: 4.0 - 10.0; for wet wipes: 3.5 to 7.5; for taffeta labels: 4.0 - 9.0; for film material (e.g. polyolefin films) with incorporated Calciumbicarbonate/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; 폼: 4.0 - 9.0; 피부에 직접 접촉되지 않는 중탄산칼슘/탄산염 또는 활석이 포함된 필름 재료(예. 폴리올레핀 필름): 4.0 - 10.0; 물티슈: 3.5 - 7.5; 태피터 라벨: 4.0 - 8.3; 중탄산칼슘/탄산염 또는 활석 및 백지가 포함된 필름 재료(예. 폴리올레핀 필름)의 경우 직접적인 피부 접촉이 없음: 4.0-10.0.

<sup>2</sup> 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

<sup>4</sup> 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

<sup>5</sup> Including the requirement by REACH-Regulation Annex XVII, Entry 27 / REACH-규정 Annex XVII, 항목 27의 요구 사항 포함

<sup>6</sup> For metallic accessories and metallized surfaces: 0.5 mg/kg / 금속 장식류와 금속 표면 처리된 제품: 0.5 mg/kg

<sup>7</sup> For metallic accessories and metallized surfaces: 1.0 mg/kg / 금속 장식류와 금속 표면 처리된 제품: 1.0 mg/kg

<sup>3</sup> For accessories made from glass: 0.1% (1000 mg/kg) / 유리로 만든 액세서리 제품 : 0.1% (1000 mg/kg)



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<b>Pesticides / 살충제 [mg/kg] <sup>8</sup></b>				
Sum / 합계	0.5	1.0	1.0	1.0
Glyphosate and salts for conventional cotton / 일반 면에 대한 글리 포세이트 및 염류	5	5	5	5
Glyphosate and salts for organic cotton / 유기농면에 대한 글리포 세이트 및 염류	0.5	1.0	1.0	1.0
Pesticides under observation / 관찰 중인 살충제	u.o. / 관찰중			

<sup>8</sup> For natural fibres only / 천연섬유만



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<b>Chlorinated phenols / 염화페놀 [mg/kg]</b>				
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
<b>Plasticizer/Phthalates / 가소제/프탈레이트 [mg/kg] <sup>11</sup></b>				
Sum / 합계	500	500	500	
Sum without DINP / DINP 를 제외한 합계				1000
<b>Organic tin compounds / 유기 주석 화합물 [mg/kg]</b>				
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
<b>Other chemical residues / 기타 잔류 화학물질</b>				
Bis(4-chlorophenyl) sulphone [mg/kg]	1000	1000	1000	1000
Diphenyl (2,4,6-trimethylbenzoyl)phosphine oxide [mg/kg]	1000	1000	1000	1000
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol [mg/kg]	1000	1000	1000	1000
Melamine / 멜라민 [mg/kg] <sup>30</sup>	1000	1000	1000	1000
Free and cleavable carcinogenic arylamines except aniline / 아닐린을 제외한 유리기 및 분리 가능한 발암성 아릴아민계 [mg/kg] <sup>12 13</sup>	20	20	20	20
Free and cleavable carcinogenic arylamines under observation / 관찰 중인 유리기 및 분리 가능한 발암성 아릴아민계	u.o. / 관찰중			
Aniline / 아닐린 [mg/kg] <sup>13</sup>	20	50	50	50
Benzene / 벤젠 [mg/kg]	5.0	5.0	5.0	5.0
Bisphenol A / Bispheno A [mg/kg]	100	100	100	100
Bisphenol B / 비스페놀 B [mg/kg]	1000	1000	1000	1000
Bisphenol S [mg/kg]	1000	1000	1000	1000
Azodicarbonamide / Diazene-1,2-dicarboxamide [mg/kg]	1000	1000	1000	1000
DMFu [mg/kg]	0.1	0.1	0.1	0.1
N-(hydroxymethyl)acrylamide [mg/kg]	1000	1000	1000	1000
Tris(2-methoxyethoxy)vinylsilane [mg/kg]	1000	1000	1000	1000
2-Mercaptobenzothiazol [mg/kg]	1000	1000	1000	1000
OPP [mg/kg]	10	25	25	25
Phenol / 페놀 [mg/kg]	20	50	50	50
Quinoline / 퀴놀린 [mg/kg]	50	50	50	50
TCEP [mg/kg]	10	10	10	10
Chemical residues under observation / 관찰 중인 화학 잔류물	u.o. / 관찰중			

<sup>11</sup> For coated articles, plastisol prints, flexible foams, and accessories made from plastics / 코팅된 제품, 플라스티졸 프린트, 연질 폼, 플라스틱으로 만들어진 액세서리에 적용

<sup>30</sup> There is a transition period for foams. If the foam contains more than 1000 mg/kg melamine, this must be stated on the certificate. / 폼 제품은 전환 기간이 있음. 폼에 1000mg/kg 이상의 멜라민이 포함된 경우 인증서에 이를 명시해야 함.

<sup>12</sup> For all materials containing polyurethane or other materials which may contain free carcinogenic arylamines / 폴리우레탄을 함유한 모든 물질 또는 무독성 아릴아민계를 포함하는 물질

<sup>13</sup> May also be present as residues / 잔류물로 존재할 수도 있음



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<b>Colourants / 착색제 [mg/kg]</b>				
Free and cleavable carcinogenic arylamines except aniline / 아닐린을 제외한 유리기 및 분리 가능한 발암성 아릴아민계 <sup>13</sup>	20	20	20	20
Free and cleavable carcinogenic arylamines under observation / 관찰 중인 유리기 및 분질 가능한 발암성 아릴아민 <sup>13</sup>	u.o. / 관찰중			
Aniline / 아닐린 <sup>13</sup>	20	50	50	50
Carcinogens / 발암물질	50	50	50	50
Michler's Ketone / Base / 미힐러 케톤/염기	1000	1000	1000	1000
Allergens / 알레젠	50	50	50	50
Others / 기타	50	50	50	50
Navy Blue / 네이비 블루	not used / 사용금지			

<sup>13</sup> May also be present as residues / 잔류물로 존재할 수도 있음



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<b>Chlorinated benzenes and toluenes / 염화벤젠 및 톨루엔 [mg/kg]</b>				
Sum / 합계	1.0	1.0	1.0	1.0
<b>Polycyclic aromatic hydrocarbons (PAH) / 다환방향족탄화수소(PAHs) [mg/kg] <sup>15</sup></b>				
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 24 PAHs / 합계 24 PAHs	5.0	10.0	10.0	10.0
<b>Biological active products / 생리 활성 제품</b>				
	no intentional use / 의도적인 사용이 아님 <sup>16</sup>			
<b>Flame retardant products / 난연 제품</b>				
General / 일반	no intentional use / 의도적인 사용이 아님 10 mg/kg; each / 각각 <sup>16 17</sup> Sum of all / 전체 합계 50 mg/kg			
<b>Solvent residues / 솔벤트 잔류 [mg/kg] <sup>18</sup></b>				
1,4-dioxane	10	10	10	10
DMAc <sup>19</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>
DMF <sup>19</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>
Formamide / 폼아미드	200	200	200	200
NMP <sup>19</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>	500 1000 <sup>20</sup>
<b>Surfactant, wetting agent residues, alkyl phenols / 잔류 계면 활성제, 습윤제 [mg/kg]</b>				
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

<sup>15</sup> For all synthetic fibres, yarns, or threads and for plastic materials / 모든 인조 섬유, 원사 또는 재봉사와 플라스틱 재료에 적용

<sup>16</sup> With exception of treatments accepted by OEKO-TEX® (see actual list on <http://www.oeko-tex.com>) / OEKO TEX® 허용하는 처리제 이외에도 (실제 목록은 <http://www.oeko-tex.com> 참조)

<sup>17</sup> 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

<sup>18</sup> 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

<sup>19</sup> 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 %

<sup>20</sup> 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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<b>PFAS, Per- and polyfluoroalkylsubstances / 과불화화합물</b>				
PFAS	no intentional use / 의도적인 사용이 아님			
PFCA-related substances / PFCA- 관련 물질 Sum / 총합 [µg/kg]	260 <sup>34</sup>	260 <sup>34</sup>	260 <sup>34</sup>	260 <sup>34</sup>
PFOS, PFOSA, PFOSF, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE; sum / 합계 [µg/m <sup>2</sup> ]	1	1	1	1
PFHpA, PFNA, PFDA, PFUDA, PFDaA, PFTrDA, PFTeDA Further perfluorinated carboxylic acids sum; according to Annex 5 / 합계; 부록 5에 해당됨 [µg/kg]	25	25	25	25
Perfluorinated sulfonic acids, sum; according to Annex 5 / 합계; 부록 5에 해당됨 [µg/kg]	50	250	250	250
Perfluorohexanesulfonic acid, related substances and salts (PFHxS); Sum / 합계 [µg/kg] <sup>35</sup>	25	25	25	25
Partially fluorinated carboxylic / sulfonic acids, sum; according to Annex 5 / 합계; 부록 5에 해당됨 [µg/kg]	50	250	250	250
Partially fluorinated carboxylic / sulfonic acids, under observation / 관찰 중	u.o. / 관찰 중			
Partially fluorinated linear alcohols, sum; according to Annex 5 / 합계; 부록 5에 해당됨 [µg/kg]	250	250	250	250
Esters of fluorinated alcohols with acrylic acid, sum; according to Annex 5 / 합계; 부록 5에 해당됨 [µg/kg]	250	250	250	250
PFOA and salts Sum / PFOA 및 염류 합계 [µg/kg]	25	25	25	25
PFOA related Substances Sum / 기타 PFOA와 관련된 물질 [µg/kg] <sup>22</sup>	250	250	250	250
<b>Fluorine content / 플루오린 함량 [mg/kg]</b>				
Total fluorine (TF) / 총 불소 함량(TF) <sup>31</sup>	100	100	100	100
<b>UV stabilizers / UV 안정제 [mg/kg]</b>				
UV 320, UV 327, UV 328, UV 350; each / 개별	1000	1000	1000	1000
<b>Chlorinated paraffins / 염화파라핀</b>				
Sum of SCCP and MCCP / SCCP 및 MCCP의 합계 [mg/kg]	50	50	50	50
<b>Siloxanes / 실록산 [mg/kg]</b>				
D4, D5, D6; each / 개별	1000	1000	1000	1000
<b>N-Nitrosamines; each / 개별 [mg/kg]</b>				
N-nitrosatable substances / N-나이트로사이트된 물질; Sum / 합계 [mg/kg]	5	5	5	5

<sup>34</sup> Any C9-C14 PFCA-related substance having a perfluoro group with the formula CnF2n+1- directly bonded to another carbon atom, where n = 8, 9, 10, 11, 12 or 13, including its salts and any combinations thereof. / 화학식 CnF2n+1-을 갖는 퍼플루오로기를 갖는 임의의 C9-C14 PFCA-관련 물질, 여기서 n = 8, 9, 10, 11, 12 또는 13은 다른 탄소 원자에 직접 결합되는 것인, 염류 및 이들의 임의의 조합을 포함.

<sup>35</sup> PFHxS-related compounds are substances having C6F13S as a structural element and which degrade to PFHxS / PFHxS 관련 화합물은 C6F13S를 구조적 원소로 가지고 있으며 PFHxS로 분해되는 물질

<sup>22</sup> 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 카복실산(염류, 에스테르, 할로겐화물 및 무수를 포함) ≥ 8 과불화 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.

<sup>31</sup> This limit value applies from the 01.01.2024 on. / 한계값은 01.01.2024부터 적용됩니다.



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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
<b>Chlorinated solvents / 염화 솔벤트 [mg/kg] <sup>32*</sup></b>				
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
Sum of the chlorinated solvents / 염화 솔벤트의 합계	5.0	5.0	5.0	5.0

<sup>32</sup> 2024 is transition period / 2024 전환 기간



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Limit values and fastness

한계값 및 견뢰도

The testing procedures are described in a separate document

시험절차는 별도의 서류에 명시됩니다

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
<b>Other VOCs and glycols / 기타 VOCs 및 글리콜 [mg/kg] <sup>23 32*</sup></b>				
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
<b>Cresols / 크레졸 [mg/kg] <sup>32</sup></b>				
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
<b>Colour fastness (staining) / 견뢰도(얼룩)</b>				
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 <sup>23 24</sup>	4	4	4	4
To saliva and perspiration / 침과 땀 견뢰도	fast / 견고			
<b>Emission of volatiles / 휘발성 방출 [mg/m3] <sup>25</sup></b>				
Formaldehyde / 포름알데히드 [50-00-0]	0.1	0.1	0.1	0.1
Toluene / 톨루엔 [108-88-3]	0.1	0.1	0.1	0.1
Styrene / 스티렌 [100-42-5]	0.005	0.005	0.005	0.005
4-Vinylcyclohexene [100-40-3]	0.002	0.002	0.002	0.002
4-Phenylcyclohexene [4994-16-5]	0.03	0.03	0.03	0.03
Butadiene / 부타디엔 [106-99-0]	0.002	0.002	0.002	0.002
Vinylchloride / 염화비닐 [75-01-4]	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
<b>Organic cotton fibres and materials / 유기농 면 섬유 및 원재료 <sup>26</sup></b>				
GMO Genetically modified organisms / GMO 유전자 변형 유기체	No intentional use / 의도적으로 사용하지 않음			
GMO quantitative analysis / GMO 정량적 분석 [%] <sup>33</sup>	5	5	5	5
<b>Determination of odours / 취기 시험</b>				
General / 일반	no abnormal odour / 비정상 악취 <sup>27</sup>			





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SNV 195 651 (Modified / 개정) <sup>25</sup>	3	3	3	3
<b>Banned fibres / 금지 섬유</b>				
Asbestos / 석면	No intentional use / 의도적으로 사용하지 않음			
synthetic polymer microplastics in decorative articles / 장식용 제 품의 합성 미세 플라스틱 <sup>36</sup>	No intentional use / 의도적으로 사용하지 않음			

- <sup>23</sup> 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.
- <sup>32</sup> 2024 is transition period / 2024 전환 기간
- <sup>24</sup> 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
- <sup>25</sup> 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
- <sup>26</sup> Refer also to item 5.5. of this standard / 본 표준의 5.5 항목 참조
- <sup>33</sup> 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).
- <sup>27</sup> 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
- <sup>36</sup> as defined by the ECHA / ECHA(유럽화학물질청)에서 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	Endrine / 엔드린	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
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	Isodrine	465-73-6
Chlorbenzilate	510-15-6	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 / 사이플루트린	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 / 니텐피람	150824-47-8, 120738-89-8
DDD	53-19-0, 72-54-8	Parathion / 파라티온	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 / 디엘드라인	60-57-1	Strobane	8001-50-1
Dimethoate	60-51-5	Quinalphos / 퀴날포스	13593-03-8
Dinoseb, its salts and acetate	88-85-7 et. al.	Telodrine	297-78-9
Dinotefuran	165252-70-0	Thiacloprid	111988-49-9
DTTB	63405-99-2	Thiamethoxam / 티아메톡삼	153719-23-4
Endosulfan	115-29-7	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**

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



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

**Plasticizer/Phthalates / 가소제/프탈레이트**

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
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	DHNU
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**

<u>Name / 이름</u>	<u>Acronym</u>	<u>Name / 이름</u>	<u>Acronym</u>
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

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

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
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	Aniline	62-53-3
3,3'-Dichlorobenzidine / 3,3'-Dichlorobenzidine	91-94-1	4-Chloro-o-toluidinium chloride	3165-93-3
3,3'-Dimethoxybenzidine	119-90-4	2,4-Diaminoanisole sulphate	39156-41-7
3,3'-Dimethylbenzidine	119-93-7	3,3-Diaminobenzidin	91-95-2
4,4'-Methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0	2,5-Diaminotoluene / 2-methyl-p-phenylenediamine	95-70-5
p-Cresidine (6-Methoxy-m-toluidine) / p-Cresidine	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	2-Naphthylammoniumacetate	553-00-4
4,4'-Oxydianiline	101-80-4	2,4,5-Trimethylaniline hydrochloride	21436-97-5



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

### 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 / p-아니시딘	20265-97-8	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. 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
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
4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol with ≥ 0.1 % Michler's ketone or base		561-41-1
C.I. Solvent Blue 4 with ≥ 0.1 % Michler's ketone or base		6786-83-0

### Dyestuffs classified as allergenic / 알레르기 유발 염료

C.I. Generic Name	C.I. Structure number	CAS-Nr.
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		15141-18-1
		61951-51-7
		23355-64-8
C.I. Disperse Brown 1		2581-69-3
C.I. Disperse Orange 1	C.I. 11 080	730-40-5
C.I. Disperse Orange 3	C.I. 11 005	51811-42-8,
C.I. Disperse Orange 37 (= 59 / = 76)	C.I. 11 132	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		12236-29-2
C.I. Disperse Yellow 49		54824-37-2



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**Other banned dyestuffs / 기타 금지된 염료**

<u>C.I. Generic Name</u>	<u>C.I. Structure number</u>	<u>CAS-Nr.</u>
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. Disperse Orange 149		85136-74-9
C.I. Basic Yellow 2 / Solvent Yellow 34 (hydrochloride and free base)		2465-27-2 / 492-80-8
C.I. Disperse Yellow 23	C.I. 26 070	6250-23-3
Navy Blue (Index-Nr. 611-070-00-2; EG-Nr. 405-665-4)		

**Michler's Ketone/Base / 미힐러 케톤/염기**

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

**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(또 는 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	Benzotrifluoride	98-07-7
2,3,4,5,6-Pentachlorotoluene	877-11-2	4-Chlorobenzotrifluoride	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 / 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	
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 diastereomers identified (alpha-, beta-, gamma-) / 헥사브로모사이클로도데칸 및 확인된 모든 주요 부분입체 이성질체 (알파-, 베타-, 감마-)	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>
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	123-77-3	ADCA
N-(hydroxymethyl)acrylamide	924-42-5	
Dimethylfumarate	624-49-7	DMFu
Tris(2-methoxyethoxy)vinylsilane	1067-53-4	
Phenol / 페놀	108-95-2	
o-Phenylphenol	90-43-7	OPP
2-Mercaptobenzothiazol	149-30-4	2-MTB
Quinoline (Chinoline / Benzo[b]pyridine)	91-22-5	
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
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>
1,2-Diethoxyethane	629-14-1	2-Methoxypropanol	1589-47-5
N-ethyl-2-pyrrolidone/NEP	2687-91-4	Methylisothiazolinone	2682-20-4
2-Methoxyethylacetate	110-49-6	Bisphenol F (4,4'-Methylenediphenol)	620-92-8
Drometrizole	2440-22-4	Bisphenol AF (4,4'-(1,1,1,3,3,3-Hexafluoropropane-2,2-diyl)diphenol)	1478-61-1

**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
2,4-Di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	3864-99-1	UV 327
2-(2H-Benzotriazol-2-yl)-4,6-di-tert-pentylphenol	25973-55-1	UV 328
2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	36437-37-3	UV 350

**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
Tetrachloromethane	56-23-5	Pentachlorethane	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	110-49-6
Benzene	71-43-2	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>
Perfluorooctane sulfonic acid and sulfonates	1763-23-1, et. al.	PFOS
Perfluorooctane sulfonamide	754-91-6	PFOSA
Perfluorooctane sulfonyl fluoride	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
Perfluoroheptanoic acid and salts	375-85-9, et. al.	PFHpA
Perfluorooctanoic acid and salts	335-67-1, et. al.	PFOA
Perfluorononanoic acid and salts	375-95-1, et. al.	PFNA
Perfluorodecanoic acid and salts	335-76-2, et. al.	PFDA
Henicosaflluoroundecanoic acid and salts	2058-94-8, et. al.	PFUDA
Tricosaflluorododecanoic acid and salts	307-55-1, et. al.	PFDoA
Pentacosaflluorotridecanoic acid and salts	72629-94-8, et. al.	PFTrDA
Heptacosaflluorotetradecanoic acid and salts	376-06-7, et. al.	PFTeDA
<u>Others / 기타</u>		
<u>Further Perfluorinated carboxylic acids / 추가 과불화 카르복시산</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
Perfluoro(3,7-dimethyloctanoic acid) and salts	172155-07-6, et. al.	PF-3,7-DMOA
<u>Perfluorinated carboxylic and sulfonic acids under observation / 관찰 중인 불소계 카르복실 및 술폰산</u>		
2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid, its salts and its acyl halides	various	
<u>Perfluorinated sulfonic acids / 불소계 술폰산</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
Henicosaflluorodecane sulfonic acid and salts	335-77-3, et. al.	PFDS
<u>Partially fluorinated carboxylic / sulfonic acids / 부분 과불화 카르복시 / 술폰산</u>		
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.	4HPFUaA
1H,1H,2H,2H-Perfluorooctane sulfonic acid and salts	27619-97-2, et. al.	6:2 FTS
<u>Partially fluorinated linear alcohols / 부분 과불화 사슬형 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
<u>Esters of fluorinated alcohols with acrylic acid / 불소화 알코올 및 아크릴산의 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>PFOA related Substances / PFOA 관련 물질</u>		
1H,1H,2H,2H-Perfluorodecyl acrylate	27905-45-9	8:2 FTA
1H,1H,2H,2H-Perfluoro-1-decanol	678-39-7	8:2 FTOH
1H,1H,2H,2H-Perfluorodecanesulphonic acid and its salts	39108-34-4, et. al.	8:2 FTS



STANDARD  
100

**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.