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## 4 Annex

## 부록

### Limit values table

### 제한 수치 표

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.

실험실에서 측정된 값(mg/kg, µg/m<sup>2</sup> 또는 w-%)은 인증서를 취득하기 위해 지정된 한계보다 낮아야 합니다.

### Limit values and fastness, part 1

### 제한수치와 견뢰도, 파트 1

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>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, free and partially releasable / 포름알데히드, 없거나, 일부 방출 [mg/kg]</b>				
Law 112 / 법 112	n.d. <sup>2</sup>	75	150	300
<b>Extractable (heavy) metals / 용출 (중)금속 [mg/kg]</b>				
Sb (Antimony / 안티몬)	30.0	30.0	30.0	
As (Arsenic / 비소)	0.2	1.0	1.0	1.0
Pb (Lead / 납)	0.2	1.0 <sup>3</sup>	1.0 <sup>3</sup>	1.0 <sup>3</sup>
Cd (Cadmium / 카드뮴)	0.1	0.1	0.1	0.1
Cr (Chromium / 크롬)	1.0	2.0	2.0	2.0
Cr (VI)	0.5	0.5	0.5	0.5
Co (Cobalt / 코발트)	1.0	4.0	4.0	4.0
Cu (Copper / 구리)	25.0 <sup>4</sup>	50.0 <sup>4</sup>	50.0 <sup>4</sup>	50.0 <sup>4</sup>
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>
Hg (Mercury / 수은)	0.02	0.02	0.02	0.02
Ba (Barium / 바륨)	1000	1000	1000	1000
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>

- 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 Calciumcarbonate/carbonate or talc, which do not have directly contact to skin: 4.0 - 10.0; Exception for wet wipes, the accepted pH range is from 3.5 to 7.5 / 추가 공정 중에 습식 처리되는 제품의 경우: 4.0 - 10.5, 폼: 4.0 - 9.0, 피부에 직접 접촉하지 않는 중탄산칼슘/탄산염 또는 탈크가 포함된 필름 재료 (예: 폴리올레핀 필름)의 경우: 4.0 - 10.0, 물티슈의 경우를 제외하고 허용 pH 범위는 3.5 - 7.5입니다.
- n.d. corresponds according to „Japanese Law 112“ test method with an absorbance unit less than 0.05 resp. 16 mg/kg / "일본 법 112"에 따라 흡광도가 0.05 resp. 16 mg/kg 미만이면 n.d가 부여됨
- For accessories made from glass: 0.1% (1000 mg/kg) / 유리로 만든 액세서리 제품 : 0.1% (1000 mg/kg)
- 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
- Including the requirement by REACH-Regulation Annex XVII, Entry 27 / REACH-규정 Annex XVII, Entry 27의 요구 사항 포함
- For metallic accessories and metallized surfaces: 0.5 mg/kg / 금속 장식류와 금속 표면 처리된 제품: 0.5 mg/kg
- For metallic accessories and metallized surfaces: 1.0 mg/kg / 금속 장식류와 금속 표면 처리된 제품: 1.0 mg/kg



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<b>Pesticides / 살충제 [mg/kg] <sup>8 9</sup></b>				
Sum / 합계 <sup>9</sup>	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
Pesticides under observation / 관찰 중인 살충제 <sup>9</sup>	u.o. / 관찰중 <sup>10</sup>			

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

<sup>9</sup> The individual substances are listed in Annex 5 / 개별 물질은 부록 5에 정리되어 있음

<sup>10</sup> u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated / u.o.=관찰중; 물질이 무작위로 테스트되며 정보 목적으로 결과가 제공됨; 현재 실제로 규제되지는 않음



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Limit values and fastness, part 2

제한수치와 견뢰도, 파트 2

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>Chlorinated phenols / 염화페놀 [mg/kg] <sup>9</sup></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 [w-%] <sup>11</sup></b>				
Sum / 합계 <sup>9</sup>	0.05	0.05	0.05	
Sum without DINP / DINP 를 제외한 합계 <sup>9</sup>				0.1
<b>Organic tin compounds / 유기 주석 화합물 [mg/kg] <sup>9</sup></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>				
6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol / 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol [mg/kg]	1000	1000	1000	1000
Carcinogenic Arylamines / 발암성 아릴아민계 [mg/kg] <sup>9 12 13</sup>	20	20	20	20
Arylamines under observation / 관찰 중인 아릴아민 <sup>9</sup>	u.o. / 관찰중 <sup>10</sup>			
Aniline / 아닐린 [mg/kg] <sup>9 14</sup>	20	50	50	50
Benzene / 벤젠 [mg/kg] <sup>9</sup>	5.0	5.0	5.0	5.0
Bisphenol A [mg/kg] <sup>9</sup>	100	100	100	100
Bisphenol B [mg/kg] <sup>9</sup>	1000	1000	1000	1000
Diazene-1,2-dicarboxamide [w%] <sup>9</sup>	0.1	0.1	0.1	0.1
DMFu [mg/kg] <sup>9</sup>	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] <sup>9</sup>	10	25	25	25
Phenol [mg/kg] <sup>9</sup>	20	50	50	50
Quinoline / 퀴놀린 [mg/kg] <sup>9</sup>	50	50	50	50
Glutaraldehyde / 글루타르알데히드 [mg/kg] <sup>9</sup>	1000	1000	1000	1000
TCEP [mg/kg] <sup>9</sup>	10	10	10	10
Chemical residues under observation / 관찰 중인 화학 잔류물 <sup>9</sup>	u.o. / 관찰중 <sup>10</sup>			

<sup>9</sup> The individual substances are listed in Annex 5 / 개별 물질은 부록 5에 정리되어 있음

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

<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> The sum of cleavable carcinogenic arylamine and of possibly also as chemical residue present free carcinogenic (same) arylamine has to be also 20 mg/kg / 분리 가능한 발암성 아릴아민과 아마도 화학 잔류물이 없는 발암성 (동일) 아릴아민의 합계 또한 20mg/kg 미만이어야 함

<sup>10</sup> u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated / u.o.=관찰중; 물질이 무작위로 테스트되며 정보 목적으로 결과가 제공됨; 현재 실제로 규제되지는 않음

<sup>14</sup> The sum of cleavable aniline and of possibly also as chemical residue present free aniline has to be also 20 mg/kg (product class I) resp. 50 mg/kg (product classes II till IV) / 분리 가능한 아닐린과 아닐린 성분이 없는 화학 잔류물 합계 또한 20 mg/kg 미만(제품 등급 I), 50 mg/kg (제품 등급 II-IV까지)이어야 함



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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>Colourants / 착색제 [mg/kg]</b>				
Cleavable carcinogenic arylamines / 분리가능 발암성 아릴아민계 <sup>9 13</sup>	20	20	20	20
Cleavable arylamines under observation / 관찰 중인 분리 가능 아릴아민 <sup>9 13</sup>	u.o. / 관찰중 <sup>10</sup>			
Cleavable Aniline / 분리가능 아닐린 <sup>9 14</sup>	20	50	50	50
Carcinogens / 발암물질 <sup>9</sup>	50	50	50	50
Colourants with ≥ 0.1% Michler's Ketone/Base / 착색제 < 0.1% Michler's Ketone/계열 <sup>9</sup>	1000	1000	1000	1000
Allergens / 알레젠 <sup>9</sup>	50	50	50	50
Others / 기타 <sup>9</sup>	50	50	50	50
Navy Blue / 네이비 블루 <sup>9</sup>	not used / 사용금지			
Colourants under observation / 관찰 중인 착색제	u.o. / 관찰중 <sup>10</sup>			

<sup>9</sup> The individual substances are listed in Annex 5 / 개별 물질은 부록 5에 정리되어 있음

<sup>13</sup> The sum of cleavable carcinogenic arylamine and of possibly also as chemical residue present free carcinogenic (same) arylamine has to be also 20 mg/kg / 분리 가능한 발암성 아릴아민과 아마도 화학 잔류물이 없는 발암성 (동일) 아릴아민의 합계 또한 20mg/kg 미만이어야 함

<sup>10</sup> u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated / u.o.=관찰중; 물질이 무작위로 테스트되며 정보 목적으로 결과가 제공됨; 현재 실제로 규제되지는 않음

<sup>14</sup> The sum of cleavable aniline and of possibly also as chemical residue present free aniline has to be also 20 mg/kg (product class I) resp. 50 mg/kg (product classes II till IV) / 분리 가능한 아닐린과 아닐린 성분이 없는 화학 잔류물 합계 또한 20 mg/kg 미만(제품 등급 I), 50 mg/kg (제품 등급 II-IV까지)이어야 함



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Limit values and fastness, part 3

제한수치와 견뢰도, 파트 3

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>Chlorinated benzenes and toluenes / 염화벤젠 및 톨루엔 [mg/kg] <sup>9</sup></b>				
Sum / 합계	1.0	1.0	1.0	1.0
<b>Polycyclic aromatic hydrocarbons (PAHs) / 다환방향족탄화수소(PAHs) [mg/kg] <sup>15</sup></b>				
Benzo[a]pyrene	0.5	1.0	1.0	1.0
Benzo[e]pyrene	0.5	1.0	1.0	1.0
Benzo[a]anthracene	0.5	1.0	1.0	1.0
Chrysene	0.5	1.0	1.0	1.0
Benzo[b]fluoranthene	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
Dibenzo[a,h]anthracene	0.5	1.0	1.0	1.0
Sum 24 PAHs / 합계 24 PAHs <sup>9</sup>	5.0	10.0	10.0	10.0
<b>Biological active products / 생리 활성 제품</b>				
	none / 없음 <sup>16</sup>			
<b>Flame retardant products / 난연 제품</b>				
General / 일반	none / 없음 10 mg/kg; each / 각각 / SCCP와 MCCP의 합계 <sup>16 17</sup> Sum of all / 전체 합계 50 mg/kg			
<b>Solvent residues / 잔류 솔벤트 [w-%] <sup>9 18</sup></b>				
NMP <sup>19</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>
DMAc <sup>19</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>
DMF <sup>19</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>	0.05 0.10 <sup>20</sup>
Formamide / 폼아미드	0.02	0.02	0.02	0.02
<b>Surfactant, wetting agent residues, alkyl phenols / 잔류 계면활성제, 습윤제 [mg/kg] <sup>9</sup></b>				
BP, NP, OP, HpP, PeP (Sum / 합계)	10.0	10.0	10.0	10.0
BP, NP, OP, HpP, PeP, NP(EO), OP(EO); (Sum / 합계)	100.0	100.0	100.0	100.0

<sup>9</sup> The individual substances are listed in Annex 5 / 개별 물질은 부록 5에 정리되어 있음

<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 처리 방법 이외에도 (예외 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) 또는 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 및 아라미드 및 코팅(PU-, PVC-, PVC-플라스티솔-, PVDC-, PVC-공중합체)된 섬유 / 폴리아크릴로니트릴로(PAN), 엘라스테인(EL)의 재질.



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Limit values and fastness, part 4

제한수치와 견뢰도, 파트 4

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
<b>PFC/PFAS, Per- and polyfluorinated compounds/Per- and polyfluoroalkylsubstances / Per- and polyfluorinated compounds/Per- and polyfluoroalkylsubstances</b> <sup>9 21</sup>				
Total organic fluorine content, Sum; / 총 유기 불소제 함량, 합계; [mg/kg] <sup>29</sup>	10	10	10	10
PFOS, PFOSA, PFOSF, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE; / THE TRANSLATION "14fbb4be-4392-402b-bfc2-54006489bd36" IS MISSING sum / THE TRANSLATION "b24bb6ee-c1d8-4b20-ac72-9931080ba6b5" IS MISSING [µg/kg]	250	250	250	250
PFHpA, PFNA, PFDA, PFUdA, PFDaA, PFTrDA, PFTeDA und Further perfluorinated carboxylic acids each and sum; according to Annex 7 / 각각; 부록 5에 해당됨 [µg/kg]	25	25	25	25
Perfluorinated sulfonic acids, each and sum; according to Annex 5 / 각각; 부록 5에 해당됨 [µg/kg]	50	250	250	250
Partially fluorinated carboxylic / sulfonic acids, each; according to Annex 5 / 각각; 부록 5에 해당됨 [µg/kg]	50	250	250	250
Partially fluorinated carboxylic / sulfonic acids, under observation / THE TRANSLATION "cf705a40-2333-432f-a303-35cbf99dd3b5" IS MISSING	u.o. / THE TRANSLATION "d068a0d9-6ea1-4949-bb93-74412cb8031b" IS MISSING <sup>10</sup>			
Partially fluorinated linear alcohols, each; according to Annex 5 / 각각; 부록 5에 해당됨 [µg/kg]	250	250	250	250
Esters of fluorinated alcohols with acrylic acid, each; according to Annex 5 / 각각; 부록 5에 해당됨 [µg/kg]	250	250	250	250
sum of partly fluorinated compounds [µg/kg]	250	250	250	250
PFOA and salts Sum / THE TRANSLATION "ce670710-d58e-4149-9961-a0b6ea89b94d" IS MISSING [µg/kg]	25	25	25	25
PFOA related Substances Sum / 기타 PFOA와 관련된 물질 [µg/kg] <sup>22</sup>	250	250	250	250
<b>UV stabilizers / UV 안정제 [w-%] <sup>9</sup></b>				
UV 320	0.1	0.1	0.1	0.1
UV 327	0.1	0.1	0.1	0.1
UV 328	0.1	0.1	0.1	0.1
UV 350	0.1	0.1	0.1	0.1
<b>Chlorinated paraffins / 염화파라핀 <sup>9</sup></b>				
Sum of SCCP and MCCP [mg/kg]	50	50	50	50
<b>Siloxanes / 실록산 [w-%] <sup>9</sup></b>				
Octamethylcyclotetrasiloxane (D4)	0.1	0.1	0.1	0.1
Decamethylcyclopentasiloxane (D5)	0.1	0.1	0.1	0.1
Dodecamethylcyclohexasiloxane (D6)	0.1	0.1	0.1	0.1
N-Nitrosamines / N-나이트로사민; each / 각각 [mg/kg] <sup>9</sup>	0.5	0.5	0.5	0.5
N-nitrosatable substances / N-나이트로사이트된 물질; Sum / 합계 [mg/kg]	5	5	5	5

<sup>9</sup> The individual substances are listed in Annex 5 / 개별 물질은 부록 5에 정리되어 있음

<sup>21</sup> For all materials with a water, soil or oil repellent finish or coating / 물, 오염 또는 오일 방지 가공 또는 코팅이 된 모든 물질에 해당

<sup>29</sup> The transition period for product classes II to IV ends on the 01.01.2024, there is no transition period for product class I. / 제품 등급 II에서 IV로의 계도 기간은 01.01.2024에 종료되며 제품 등급 I의 계도 기간은 없음.

<sup>10</sup> u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated / u.o.=관찰중; 물질이 무작위로 테스트되며 정보 목적으로 결과가 제공됨; 현재 실제로 규제되지는 않음

<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. / 구조적 요소로서 화학식 C8F17-을 갖는 선형 또는 가지 perfluoroocetyl로 파생되는 모든 물질, 염류 포함, 화학식 C8F17-X에서 파생되는 X = F, Cl, Br 또는 C8F17-SO2X', C8F17-C (=O) OH 또는 C8F17-CF2-X'는 제외 (X'=염류를 포함한 모든 그룹)



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**Limit values and fastness, part 5**

**제한수치와 견뢰도, 파트 5**

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>Colour fastness (staining) / 견뢰도(얼룩)</b>				
To water / 물	3 - 4	3	3	3
To acidic perspiration / 산성 땀 응액	3 - 4	3 - 4	3 - 4	3 - 4
To alkaline perspiration / 알칼리성 땀 응액	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/m<sup>3</sup>] <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 / 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>				
Glyphosate and salts for organic cotton / 유기농 면에 대한 글리포세이트 및 염류	0.5	1.0	1.0	1.0
Genetically modified organisms (GMO) / 유전자 변형 유기체 (GMO)	not detectable / 검출되지 않음			
<b>Determination of odours /취기 시험</b>				
General / 일반	no abnormal odour / 비정상 악취 <sup>27</sup>			
SNV 195 651 (Modified / 개정) <sup>25</sup>	3	3	3	3
<b>Banned fibres / 금지 섬유</b>				
Asbestos / 석면	not used / 사용금지			
<b>Process preservative agents / 가공 방부제</b>				
Process preservative agents under observation / 관찰 중인 가공 방부제 <sup>9</sup>	u.o. / 관찰중 <sup>10</sup>			

<sup>23</sup> No requirements for 'wash-out' - articles / '워시아웃' 제품엔 해당하지 않음

<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 3등급 까지 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>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 악취는 허용되지 않음

<sup>9</sup> The individual substances are listed in Annex 5 / 개별 물질은 부록 5에 정리되어 있음

<sup>10</sup> u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated / u.o.=관찰중; 물질이 무작위로 테스트되며 정보 목적으로 결과가 제공됨; 현재 실제로 규제되지는 않음



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## 5 Annex

## 부록

### Compilation of the individual substances for Annex 4, part 1

### 부록 4에 따른 개별물질 목록, 파트 1

#### Pesticides / 살충제

Name / 이름	CAS-Nr.	Name / 이름	CAS-Nr.
2,4,5-T	93-76-5	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
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 / 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 / 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 / Dichlorophene	97-23-4	Phosphamidon	13171-21-6
Dichlorprop	120-36-5	Propethamphos	31218-83-4
Dicofol / Dicofol	115-32-2	Profenophos	41198-08-7
Dicrotophos	141-66-2	Silafluofen / 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.	Telodrine	297-78-9
Dinotefuran	165252-70-0	Thiacloprid	111988-49-9
DTTB / DTTB	63405-99-2	Thiamethoxam	153719-23-4
Endosulfan	115-29-7	Tolyfluamide / Tolyfluamide	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 / 예시 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, part 2**

**부록 4에 따른 개별물질 목록, 파트 2**

**Plasticizer/Phthalates / Plasticizer/Phthalates**

<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	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**

<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

**Arylamines having carcinogenic properties, cleavable arylamines / 발암성 물질 함유 아릴아민계, 분리 가능한 아릴아민계**

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
<u>MAK III, category 1</u>		<u>MAK III, category 1</u>	
4-Aminobiphenyl	92-67-1	4-Chloro-o-toluidine	95-69-2
Benzidine	92-87-5	2-Naphthylamine	91-59-8
<u>MAK III, category 2</u>		<u>MAK III, category 2</u>	
o-Aminoazotoluene	97-56-3	4,4'-Methylene-bis-(2-chloroaniline) / 4,4'-Methylene-bis-(2-chloroaniline)	101-14-4
2-Amino-4-nitrotoluene	99-55-8	4,4'-Oxydianiline	101-80-4
4-Chloroaniline	106-47-8	4,4'-Thiodianiline	139-65-1
2,4-Diaminoanisole	615-05-4	o-Toluidine	95-53-4
4,4'-Diaminodiphenylmethane / 4,4'-Diaminobiphenylmethane	101-77-9	2,4-Toluylenediamine / 2,4-Toluylendiamine	95-80-7
3,3'-Dichlorobenzidine / 3,3'-Dichlorobenzidine	91-94-1	2,4,5-Trimethylaniline	137-17-7
3,3'-Dimethoxybenzidine	119-90-4	o-Anisidine (2-Methoxyaniline)	90-04-0
3,3'-Dimethylbenzidine	119-93-7	4-Aminoazobenzene	60-09-3
4,4'-Methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminobiphenylmethane	838-88-0	2,4-Xylidine	95-68-1
p-Cresidine (6-Methoxy-m-toluidine) / p-Cresidine	120-71-8	2,6-Xylidine	87-62-7



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**Other Arylamines, cleavable arylamines; amine salts / 기타 아릴아민계, 분리 가능한 아릴아민계: 아민염류**

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Name / 이름</u>	<u>CAS-Nr.</u>
Aniline	62-53-3	2,5-Diaminotoluene / 2-methyl-p-phenyldiamine / 2,5-Diaminotoluene / 2-methyl-p-phenyldiamine	95-70-5
4-Chloro-o-toluidinium chloride	3165-93-3	4-Ethoxyaniline / p-phenetidine / 4-Ethoxyaniline / 156-43-4 p-phenetidine	
2,4-Diaminoanisole sulphate	39156-41-7	2-Naphthylammoniumacetate	553-00-4
3,3-Diaminobenzidin / 3,3-Diaminobenzidin	91-95-2	2,4,5-Trimethylaniline hydrochloride	21436-97-5



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**Compilation of the individual substances for  
Annex 4, part 3**

**부록 4에 따른 개별물질 목록, 파트 3**

**Arylamines under observation / 관찰 중인 아릴아민**

<u>Name / 이름</u>	<u>CAS-Nr.</u>
p-anisidine	20265-97-8

**Dyestuffs and pigments classified as carcinogenic / 발암성 염료 및 안료**

<u>C.I. Generic Name</u>	<u>C.I. Structure number</u>	<u>CAS-Nr.</u>
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

**Colourants with ≥ 0.1% Michler's Ketone/Base / 착색제 < 0.1% Michler's Ketone/계열**

4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol		561-41-1
C.I. Solvent Blue 4		6786-83-0

**Dyestuffs classified as allergenic / 알레르기 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
C.I. Disperse Blue 106		69766-79-6
C.I. Disperse Blue 124		12223-01-7
		68516-81-4
		61951-51-7
		61951-51-7
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		12236-29-2
C.I. Disperse Yellow 49		54824-37-2



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**Compilation of the individual substances for Annex 4, part 4**

**부록 4에 따른 개별물질 목록, 파트 4**

**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)		

**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 / 1,2-Dichlorobenzene	95-50-1	1,3-Dichlorobenzene	541-73-1
1,4-Dichlorobenzene / 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	Benzotrithloride /	98-07-7
2,3,4,5,6-Pentachlorotoluene	877-11-2	4-Chlorobenzotrithloride /	5216-25-1
3-Chlorotoluene	108-41-8	α-substituted-Chlorotoluenes	Various
2,3-Dichlorotoluene	32768-54-0		

**Polycyclic aromatic hydrocarbons (PAHs) / 다환방향족탄화수소(PAHs)**

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



**Compilation of the individual substances for  
Annex 4, part 5**

**부록 4에 따른 개별물질 목록, 파트 5**

**Forbidden flame retardant substances / 금지된 난연 물질**

<u>Name / 이름</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
Polybromobiphenyls (Polybrominated biphenyls)	59536-65-1	PBBs
Monobromobiphenyls	various	MonoBB
Dibromobiphenyls	various	DiBB
Tribromobiphenyls	various	TriBB
Tetrabromobiphenyls	various	TetraBB
Pentabromobiphenyls	various	PentaBB
Hexabromobiphenyls	various	HexaBB
Heptabromobiphenyls	various	HeptaBB
Octabromobiphenyls	various	OctaBB
Nonabromobiphenyls	various	NonaBB
Decabromobiphenyl	13654-09-6	DecaBB
Polybrominated diphenyl ethers	various	PBDEs
Monobromodiphenylethers	various	MonoBDEs
Dibromodiphenylethers	various	DiBDEs
Tribromodiphenylethers	various	TriBDEs
Tetrabromodiphenylethers	various, 40088-47-9	TetraBDEs
Pentabromodiphenylethers	various, 32534-81-9	PentaBDEs
Hexabromodiphenylethers	various, 36483-60-0	HexaBDEs
Heptabromodiphenylethers	various, 68928-80-3	HeptaBDEs
Octabromodiphenylethers	various, 32536-52-0	OctaBDEs
Nonabromodiphenylethers	various, 63936-56-1	NonaBDEs
Decabromodiphenylether	1163-19-5	DecaBDE
Tri(2,3-dibromopropyl)phosphate / Tri(2,3-dibromopropyl)-phosphate	126-72-7	TRIS
Tris(2-chloroethyl)phosphate	115-96-8	TCEP
Hexabromocyclododecane and all main diastereomers identified (alpha-, beta-, gamma-)	Various, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8, 25637-99-4	HBCDD
Tetrabromobisphenol A	79-94-7	TBBPA
Bis(2,3-dibromopropyl)phosphate	5412-25-9	BIS
2,2-Bis(bromomethyl)-1,3-propanediol	3296-90-0	BBMP
Tris(1,3-dichloro-iso-propyl)phosphate	13674-87-8	TDCPP
Tris(aziridinyl)phosphin oxide	545-55-1	TEPA
Boric acid	10043-35-3, 11113-50-1	
Zinc borate salts / 붕산아연 염류	1332-07-6, 12767-90-7	
Diboron trioxide	1303-86-2	
Disodium tetraborate / Disodium tetraborate	1303-96-4, 1330-43-4, 12179-04-3	
Disodium octaborate	12008-41-2	
Tetraboron disodium heptaoxide, hydrate	12267-73-1	
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	
Trixylylphosphate	25155-23-1	TXP

**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**

<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)



STANDARD  
100

**Compilation of the individual substances for  
Annex 4, part 6**

**부록 4에 따른 개별물질 목록, 파트 6**

**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 / 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	
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
Diazene-1,2-dicarboxamide	123-77-3	ADCA
N-(hydroxymethyl)acrylamide / N-(hydroxymethyl)acrylamide	924-42-5	
Dimethylfumarate	624-49-7	DMFu
Tris(2-methoxyethoxy)vinylsilane / Tris(2-methoxyethoxy)vinylsilane	1067-53-4	
Phenol / Phenol	108-95-2	
o-Phenylphenol / o-Phenylphenol	90-43-7	OPP
2-Mercaptobenzothiazol / 2-Mercaptobenzothiazol	149-30-4	2-MTB
Quinoline (Chinoline / Benzo[b]pyridine)	91-22-5	
Glutaraldehyde	111-30-8	
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>
1,2-Diethoxyethane	629-14-1	Methylisothiazolinone	2682-20-4
N-ethyl-2-pyrrolidone/NEP / N-ethyl-2-pyrrolidone/NEP	2687-91-4	Bisphenol F (4,4'-Methylenediphenol)	620-92-8
2-Methoxyethylacetate	110-49-6	Bisphenol S (4,4'-Sulfonyldiphenol)	80-09-1
Drometrizole / Drometrizol	2440-22-4	Bisphenol AF (4,4'-(1,1,1,3,3,3-Hexafluoropropane-2,2-diyldiphenol)	1478-61-1
2-Methoxypropanol	1589-47-5		

**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

**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



**Compilation of the individual substances for  
Annex 4, part 7**

**부록 4에 따른 개별물질 목록, 파트 7**

**PFCs, Per- and polyfluorinated compounds / PFCs, 과불화탄소**

Name / 이름

Perfluorooctane sulfonic acid and sulfonates  
Perfluorooctane sulfonamide  
Perfluorooctane sulfonyl fluoride

CAS-Nr.

1763-23-1, et. al.  
754-91-6  
307-35-7

Acronym

PFOS  
PFOSA  
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 / Perfluoroheptanoic acid and salts

375-85-9, et. al.

PFHpA

Perfluorooctanoic acid and salts / Perfluorooctanoic acid and salts

335-67-1, et. al.

PFOA

Perfluorononanoic acid and salts / Perfluorononanoic acid and salts

375-95-1, et. al.

PFNA

Perfluorodecanoic acid and salts / Perfluorodecanoic acid and salts

335-76-2, et. al.

PFDA

Henicosafluoroundecanoic acid and salts / Henicosafluoroundecanoic acid and salts

2058-94-8, et. al.

PFUDA

Tricosafluorododecanoic acid and salts / Tricosafluorododecanoic acid and salts

307-55-1, et. al.

PFDoA

Pentacosafluorotridecanoic acid and salts / Pentacosafluorotridecanoic acid and salts

72629-94-8, et. al.

PFTrDA

Heptacosafluorotetradecanoic acid and salts / Heptacosafluorotetradecanoic acid and salts

376-06-7, et. al.

PFTeDA

Others / 기타

Further Perfluorinated carboxylic acids / 추가 과불화 카르복시산

Perfluorobutanoic acid and salts / Perfluorobutanoic acid and salts

375-22-4, et. al.

PFBA

Perfluoropentanoic acid and salts / Perfluoropentanoic acid and salts

2706-90-3, et. al.

PFPeA

Perfluorohexanoic acid and salts / Perfluorohexanoic acid and salts

307-24-4, et. al.

PFHxA

Perfluoro(3,7-dimethyloctanoic acid) and salts / Perfluoro(3,7-dimethyloctanoic acid) and salts

172155-07-6, et. al.

PF-3,7-  
DMOA

Perfluorinated carboxylic and sulfonic acids under observation / 관찰 중인 불소계 카르복실 및  
술폰산

2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid, its salts and its acyl halides

various

Perfluorinated sulfonic acids / 불소계 술폰산

Perfluorobutane sulfonic acid and salts / 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

Henicosafluorodecane sulfonic acid and salts

335-77-3, et. al.

PFDS

Partially fluorinated carboxylic / sulfonic acids / 부분 과불화 카르복시 / 술폰산

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

1H,1H,2H,2H-Perfluorooctane sulfonic acid and salts / 1H,1H,2H,2H-Perfluorooctane sulfonic acid and salts

27619-97-2, et. al.

1H,1H,2H,2H-  
PFOS

Partially fluorinated linear alcohols / 부분 과불화 사슬형 알코올

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

Esters of fluorinated alcohols with acrylic acid / 불소화 알코올 및 아크릴산의 에스테르

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

PFOA related Substances /

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





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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.