

Annex 4

Limit values table / 規制値表

Any value measured in the laboratory (which is measured in mg/kg, $\mu\text{g}/\text{m}^2$ or w-%) must be below the specified limit to obtain the certificate. 試験機関で測定された試験結果（測定単位は mg/kg、 $\mu\text{g}/\text{m}^2$ 、又は w-%）は全て、特定された規制値未満でなければ、認証とはなりません。

Limit values and fastness, part 1

(The testing procedures are described in a separate document)

Product Class	I Baby	II in direct contact with skin	III with no direct contact with skin	IV Decoration material
pH value¹				
	4.0 - 7.5	4.0 - 7.5	4.0 - 9.0	4.0 - 9.0
Formaldehyde, free and partially releasable [mg/kg]				
Law 112	n.d. ²	75	150	300
Extractable (heavy) metals [mg/kg]				
Sb (Antimony)	30.0	30.0	30.0	
As (Arsenic)	0.2	1.0	1.0	1.0
Pb (Lead)	0.2	1.0 ³	1.0 ³	1.0 ³
Cd (Cadmium)	0.1	0.1	0.1	0.1
Cr (Chromium)	1.0	2.0	2.0	2.0
Cr(VI)	0.5			
Co (Cobalt)	1.0	4.0	4.0	4.0
Cu (Copper)	25.0 ⁴	50.0 ⁴	50.0 ⁴	50.0 ⁴
Ni (Nickel) ⁵	1.0 ⁶	4.0 ⁷	4.0 ⁷	4.0 ⁷
Hg (Mercury)	0.02	0.02	0.02	0.02
Ba (Barium)	1000	1000	1000	1000
Se (Selenium)	100	100	100	100
Heavy metals total content [mg/kg]				
As (Arsenic)	100	100	100	100
Cd (Cadmium)	40.0	40.0 ³	40.0 ³	40.0 ³
Hg (Mercury)	0.5	0.5	0.5	0.5
Pb (Lead)	90.0	90.0 ³	90.0 ³	90.0 ³
Pesticides [mg/kg]^{8,9}				
Sum ⁹	0.5	1.0	1.0	1.0
Glyphosate and salts for conventional cotton	5	5	5	5
Pesticides under observation ⁹	u.o. ¹⁰			

¹ 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, which do not have directly contact to skin: 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

³ No requirement for accessories made from glass

⁴ No requirement for accessories and yarns made from inorganic materials, respecting the requirements regarding biological active products

⁵ Including the requirement by REACH-Regulation Annex XVII, Entry 27

⁶ For metallic accessories and metallized surfaces: 0.5 mg/kg

⁷ For metallic accessories and metallized surfaces: 1.0 mg/kg

⁸ For natural fibres only

⁹ The individual substances are listed in Annex 5

¹⁰ u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated indeed

Annex 4

Limit values and fastness, part 2

(The testing procedures are described in a separate document)

Product Class	I Baby	II in direct contact with skin	III with no direct contact with skin	IV Decoration material
Chlorinated phenols [mg/kg]⁹				
Pentachlorophenol (PCP)	0.05	0.5	0.5	0.5
Tetrachlorophenols (TeCP), Sum	0.05	0.5	0.5	0.5
Trichlorophenols (TrCP), Sum	0.2	2.0	2.0	2.0
Dichlorophenols (DCP), Sum	0.5	3.0	3.0	3.0
Monochlorophenols (MCP), Sum	0.5	3.0	3.0	3.0
Phthalates [w-%]¹¹				
Sum ⁹	0.05	0.05	0.05	
Sum without DINP ⁹				0.1
Organic tin compounds [mg/kg]⁹				
TBT, TPhT	0.5	1.0	1.0	1.0
DBT, DMT, DOT, DPhT, DPT, MBT, MOT, MMT, MPhT, TeBT, TeET, TCyHT, TMT, TOT, TPT	1.0	2.0	2.0	2.0
Other chemical residues				
Cancerogenic Arylamines [mg/kg] ^{9,12,13}	20	20	20	20
Arylamines under observation ⁹		u.o. ¹⁰		
Aniline [mg/kg] ^{9,14}	20	50	50	50
Benzene [mg/kg] ⁹	5.0	5.0	5.0	5.0
Bisphenol A [w-%] ⁹	0.1	0.1	0.1	0.1
Diazene-1,2-dicarboxamide [w-%] ⁹	0.1	0.1	0.1	0.1
DMFu [mg/kg] ⁹	0.1	0.1	0.1	0.1
OPP [mg/kg] ⁹	10	25	25	25
Phenol [mg/kg] ⁹	20	50	50	50
Quinoline [mg/kg] ⁹	50	50	50	50
TCEP [mg/kg] ⁹	10	10	10	10
Chemical residues under observation		u.o. ¹⁰		
Colorants [mg/kg]				
Cleavable cancerogenic arylamines ^{9,13}	20	20	20	20
Cleavable arylamines under observation ^{9,13}		u.o. ¹⁰		
Cleavable Aniline ^{9,14}	20	50	50	50
Carcinogens ⁹		50		
Allergens ⁹		50		
Others ⁹		50		
Navy Blue ⁹		not used		
C.I. Basic Yellow 2 (C.I. Solvent Yellow 34; Auramine hydrochloride)		u.o. ¹⁰		

⁹ The individual substances are listed in Annex 5

¹¹ For coated articles, plastisol prints, flexible foams, and accessories made from plastics

¹² For all materials containing polyurethane or other materials which may contain free carcinogenic arylamines

¹³ The sum of cleavable cancerogenic arylamine and of possibly also as chemical residue present free cancerogenic (same) arylamine has to be also 20 mg/kg

¹⁰ u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated indeed

¹⁴ 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)

Annex 4

Limit values and fastness, part 3

(The testing procedures are described in a separate document)

Product Class	I Baby	II in direct contact with skin	III with no direct contact with skin	IV Decoration material
Chlorinated benzenes and toluenes [mg/kg]⁹				
Sum	1.0	1.0	1.0	1.0
Polycyclic aromatic hydrocarbons (PAHs) [mg/kg]¹⁵				
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 ⁹	5.0	10.0	10.0	10.0
Biological active products				
	none ¹⁶			
Flame retardant products				
General	none (10 mg/kg; each; for sum SCCP + MCCP50 mg/kg) ^{16,17} Sum of all 50 mg/kg			
Solvent residues [w-%]^{9,18}				
NMP ¹⁹	0.05 0.10 ²⁰			
DMAc ¹⁹	0.05 0.10 ²⁰			
DMF ¹⁹	0.05 0.10 ²⁰			
Formamide	0.02	0.02	0.02	0.02
Surfactant, wetting agent residues [mg/kg]⁹				
NP, OP, HpP, PeP; / Sum	10.0	10.0	10.0	10.0
NP, OP, HpP, PeP, NP(EO), OP(EO); / Sum	100.0	100.0	100.0	100.0
4-tert-butylphenol	u.o. ¹⁰			

⁹ The individual substances are listed in Annex 5

¹⁵ For all synthetic fibres, yarns, or threads and for plastic materials

¹⁶ With exception of treatments accepted by OEKO-TEX® (see actual list on <http://www.oeko-tex.com>)

¹⁷ Accepted flame retardant products do not contain any of the banned flame retardant substances listed in Annex 5 as active agent

¹⁸ For fibre, yarns, fabrics and coated articles (e.g. artificial leather) as well as foams (EVA, PVC), where solvents are used during production

¹⁹ 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 %

²⁰ For materials made of acrylic (PAN), elastane (EL) / polyurethane, polyimide and aramides as well as coated (PU-, PVC-, PVC-plastisol-, PVDC-, PVC-copolymer) textiles. / For materials made of acrylic (PAN), elastane (EL) / polyurethane, polyimide and aramides as well as coated (PU-, PVC-, PVC-plastisol-, PVDC-, PVC-copolymer) textiles / Für Materialien aus Polyacrylnitril (PAN), Elastan (EL).

¹⁰ u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated indeed

Annex 4

Limit values and fastness, part 4

(The testing procedures are described in a separate document)

Product Class	I Baby	II in direct contact with skin	III with no direct contact with skin	IV Decoration material
PFCs, Per- and polyfluorinated compounds^{9,21}				
PFOS, PFOA, PFOSF, N-Me-FOSA, N-Et-FOSA, N-Me-FOSE, N-Et-FOSE; / Sum / 合計 [µg/m ²]	1.0	1.0	1.0	1.0
PFOA [µg/m ²]	1.0	1.0	1.0	1.0
PFHpA [mg/kg]	0.05	0.1	0.1	0.5
PFNA [mg/kg]	0.05	0.1	0.1	0.5
PFDA [mg/kg]	0.05	0.1	0.1	0.5
PFUdA [mg/kg]	0.05	0.1	0.1	0.5
PFDoA [mg/kg]	0.05	0.1	0.1	0.5
PFTrDA [mg/kg]	0.05	0.1	0.1	0.5
PFTeDA [mg/kg]	0.05	0.1	0.1	0.5
Further Perfluorinated carboxylic acids, each; according to Annex 5 [mg/kg]	0.05			
Perfluorinated sulfonic acids, each; according to Annex 5 [mg/kg]	0.05			
Partially fluorinated carboxylic / sulfonic acids, each; according to Annex 5 [mg/kg]	0.05			
Partially fluorinated carboxylic / sulfonic acids, under observation		u.o. ¹⁰		
Partially fluorinated linear alcohols, each; according to Annex 5 [mg/kg]	0.50			
Esters of fluorinated alcohols with acrylic acid, each; according to Annex 5 [mg/kg]	0.50			
Other PFOA related Substances ²²		u.o. ¹⁰		
UV stabilizers [w-%]⁹				
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
Chlorinated paraffins⁹				
Sum of SCCP and MCCP [mg/kg]	50	50	50	50
Siloxanes [w-%]⁹				
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; each⁹ [mg/kg]	0.5	0.5	0.5	0.5
N-nitrosatable substances; Sum [mg/kg]	5	5	5	5

⁹ The individual substances are listed in Annex 5

²¹ For all materials with a water, soil or oil repellent finish or coating

¹⁰ u.o. = under observation; substance is tested randomly and result provided for information purposes; presently not regulated indeed

²² Any other substance having linear or branched perfluorooctyl derivatives with the formula C₈F₁₇- as a structural element, including its salts, except those derivatives with the formula C₈F₁₇-X, where X= F, Cl, Br or, C₈F₁₇-SO₂X', C₈F₁₇-C(=O)OH or C₈F₁₇-CF₂-X' (where X'=any group, including salts)

Annex 4

Limit values and fastness, part 5

(The testing procedures are described in a separate document)

Product Class	I Baby	II in direct contact with skin	III with no direct contact with skin	IV Decoration material
Colour fastness (staining)				
To water	3 - 4	3	3	3
To acidic perspiration	3 - 4	3 - 4	3 - 4	3 - 4
To alkaline perspiration	3 - 4	3 - 4	3 - 4	3 - 4
To rubbing, dry ^{23,24}	4	4	4	4
To saliva and perspiration	fast			
Emission of volatiles [mg/m³]²⁵				
Formaldehyde [50-00-0]	0.1	0.1	0.1	0.1
Toluene [108-88-3]	0.1	0.1	0.1	0.1
Styrene [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 [106-99-0]	0.002	0.002	0.002	0.002
Vinylchloride [75-01-4]	0.002	0.002	0.002	0.002
Aromatic hydrocarbons	0.3	0.3	0.3	0.3
Organic volatiles	0.5	0.5	0.5	0.5
Organic cotton fibres and materials²⁶				
Glyphosate and salts for organic cotton	0.5	1.0	1.0	1.0
Genetically modified organisms (GMO)	not detectable			
Determination of odours				
General	no abnormal odour ²⁷			
SNV 195 651 (Modified) ²⁵	3	3	3	3
Banned fibres				
Asbestos	not used			

²³ No requirements for 'wash-out' – articles

²⁴ For pigment, vat or sulphurous colorants a minimum grade of colour fastness to rubbing of 3 (dry) is acceptable

²⁵ For textile carpets, mattresses as well as foams and large coated articles not being used for clothing

²⁶ Refer also to item 5.5. of this standard

²⁷ No odour from mould, high boiling fraction of petrol, fish, aromatic hydrocarbons or perfume

Annex 5

Compilation of the individual substances for Annex 4, part 1

Pesticides

Name	CAS-Nr.	Name	CAS-Nr.
2,4,5-T	93-76-5	Fenvalerate	51630-58-1
2,4-D	94-75-7	Heptachlor	76-44-8
Acetamiprid	135410-20-7, 160430-64-8	Heptachloroepoxide	1024-57-3, 28044-83-9
Aldicarb	116-06-3	Hexachlorobenzene	118-74-1
Aldrine	309-00-2	Hexachlorocyclohexane, α -	319-84-6
Azinophosethyl	2642-71-9	Hexachlorocyclohexane, β -	319-85-7
Azinophosmethyl	86-50-0	Hexachlorocyclohexane, δ -	319-86-8
Bromophos-ethyl	4824-78-6	Imidacloprid	105827-78-9, 138261-41-3
Captafol	2425-06-1	Isodrine	465-73-6
Carbaryl	63-25-2	Kelevane	4234-79-1
Chlorbenzilate	510-15-6	Kepone	143-50-0
Chlordane	57-74-9	Lindane	58-89-9
Chlordimeform	6164-98-3	Malathion	121-75-5
Chlorfenvinphos	470-90-6	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
Dichlorprop	120-36-5	Phosphamidone	13171-21-6
Dicrotophos	141-66-2	Propethamphos	31218-83-4
Dieldrine	60-57-1	Profenophos	41198-08-7
Dimethoate	60-51-5	Strobane	8001-50-1
Dinoseb, its salts and acetate	88-85-7 et. al.	Quinalphos	13593-03-8
Dinotefuran	165252-70-0	Telodrine	297-78-9
Endosulfan	115-29-7	Thiacloprid	111988-49-9
Endosulfan, α -	959-98-8	Thiamethoxam	153719-23-4
Endosulfan, β -	33213-65-9	Toxaphene	8001-35-2
Endrine	72-20-8	Trifluralin	1582-09-8
Esfenvalerate	66230-04-4		

Pesticides under observation

Name	CAS-Nr.	Name	CAS-Nr.
Carbendazim	10605-21-7	DTTB	63405-99-2
Chlorothalonil	1897-45-6	Metam-sodium	137-42-8
Dichlorophene	97-23-4	Silafluofen	105024-66-6
Dicofol	115-32-2	Tolyfluamide	731-27-1

Glyphosate and salts

(e.g. 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

Name	CAS-Nr.	Name	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		

Annex 5

Compilation of the individual substances for Annex 4, part 2

Phthalates

<u>Name</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	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	DHNUP
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	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

<u>Name</u>	<u>Acronym</u>	<u>Name</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	Tripropyltin	TPT
Monophenyltin	MPhT		

Arylamines having carcinogenic properties, cleavable arylamines

<u>Name</u>	<u>CAS-Nr.</u>	<u>Name</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)	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-Diaminoaniline	615-05-4	o-Toluidine	95-53-4
4,4'-Diaminodiphenylmethane	101-77-9	2,4-Toluenediamine	95-80-7
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	838-88-0	2,4-Xylidine	95-68-1
p-Cresidine (6-Methoxy-m-toluidine)	120-71-8	2,6-Xylidine	87-62-7

Other Arylamines, cleavable arylamines; amine salts

<u>Name</u>	<u>CAS-Nr.</u>	<u>Name</u>	<u>CAS-Nr.</u>
Aniline	62-53-3	2-Naphthylammoniumacetate	553-00-4
4-Chloro-o-toluidinium chloride	3165-93-3	2,4-Diaminoaniline sulphate	39156-41-7
2,4,5-Trimethylaniline hydrochloride	21436-97-5		

Annex 5

Compilation of the individual substances for Annex 4, part 3

Arylamines under observation

Name	CAS-Nr.	Name	CAS-Nr.
2-amino-5-nitrothiazole	121-66-4	p-phenetidine	156-43-4
2-methyl-p-phenyldiamine	615-50-9	p-anisidine	20265-97-8
3,3'-Diaminobenzidin (biphenyl-3,3',4,4'-tetrayltetraamine)	91-95-2		

Dyestuffs and pigments classified as carcinogenic

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

Dyestuffs classified as allergenic

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	
C.I. Disperse Blue 35		12222-75-2
C.I. Disperse Blue 102		12222-97-8
C.I. Disperse Blue 106		12223-01-7
C.I. Disperse Blue 124		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		
C.I. Disperse Yellow 49		

Other banned dyestuffs

C.I. Generic Name	C.I. Structure number	CAS-Nr.
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. Disperse Yellow 23	C.I. 26 070	6250-23-3
Navy Blue (Index-Nr. 611-070-00-2; EG-Nr. 405-665-4)		

Dyestuffs under observation

C.I. Generic Name	C.I. Structure number	CAS-Nr.
C.I. Basic Yellow 2 (= C.I. Solvent Yellow 34) (hydrochloride & free base)		2465-27-2, 492-80-8

Annex 5

Compilation of the individual substances for Annex 4, part 4

Chlorinated benzenes and toluenes

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

Polycyclic aromatic hydrocarbons (PAHs)

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

Annex 5

Compilation of the individual substances for Annex 4, part 5

Forbidden flame retardant substances

<u>Name</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	126-72-7	TRIS
Tris(2-chloroethyl)phosphate	115-96-8	TCEP
Hexabromocyclododecane and all main diastereomeres 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	TD CPP
Tris(aziridinyl)phosphin oxide	545-55-1	TEPA
Boric acid	10043-35-3, 11113-50-1	
Zinc borate salts	1332-07-6, 12767-90-7	
Diboron trioxide	1303-86-2	
Disodium tetraborate, anhydrous	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	MCCP
Trixylylphosphate	25155-23-1	TXP

Solvent residues

<u>Name</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

<u>Name</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
Nonylphenol	various	NP
Octylphenol	various	OP
Heptylphenol	various	HpP
Pentylphenol	various	PeP
Nonylphenoethoxylates	various	NP(EO)
Octylphenoethoxylates	various	OP(EO)

Surfactant, wetting agent residues under observation

<u>Name</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
4-tert-butylphenol	98-54-4	BP

Annex 5

Compilation of the individual substances for Annex 4, part 6

Other chemical residues

<u>Name</u>	<u>CAS-Nr.</u>	<u>Acronym</u>
Aniline	62-53-3	
Benzene	71-43-2	
Bisphenol A (4,4'-Isopropylidenediphenol)	80-05-7	BPA
Diazene-1,2-dicarboxamide	123-77-3	ADCA
Dimethylfumarate	624-49-7	DMFu
Phenol	108-95-2	
o-Phenylphenol	90-43-7	OPP
Quinoline (Chinoline / Benzo[b]pyridine)	91-22-5	
Tris(2-chloroethyl)phosphate	115-96-8	TCEP
Tris(4-nonylphenyl, branched and linear)phosphite with 0.1% w/w of 4-nonylphenol, branched and linear	various	TNPP

Chemical residues under observation

<u>Name</u>	<u>CAS-Nr.</u>	<u>Name</u>	<u>CAS-Nr.</u>
1,2-Diethoxyethane	629-14-1	2-Methoxypropanol	1589-47-5
2-Methoxyethylacetate	110-49-6		

UV stabilizers

<u>Name</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

<u>Name</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	MCCP

Siloxanes

<u>Name</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

<u>Name</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

Annex 5

Compilation of the individual substances for Annex 4, part 7

PFCs, Per- and polyfluorinated compounds

<u>Name</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 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
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
Henicosafuoroundecanoic acid and salts	2058-94-8, et. al.	PFUdA
Tricosafuorododecanoic acid and salts	307-55-1, et. al.	PFDoA
Pentacosafuorotridecanoic acid and salts	72629-94-8, et. al.	PFTrDA
Heptacosafuorotetradecanoic acid and salts	376-06-7, et. al.	PFTeDA
<u>Others</u>		
<u>Further Perfluorinated carboxylic acids</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</u>		
2,3,3,3-tetrafluoro-2-(heptafluoro propoxy)propionic acid , its salts and its acyl halides	various	
1H,1H,2H,2H-Perfluorodecanesulphonic acid and its salts	39108-34-4, et. al.	8:2 FTS
<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
Henicosafuorodecane sulfonic acid and salts	335-77-3, et. al.	PFDS
<u>Partially fluorinated carboxylic / sulfonic acids</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.	4HPFUnA
1H,1H,2H,2H-Perfluorooctane sulfonic acid and salts	27619-97-2, et. al.	1H,1H,2H,2H-PFOS
<u>Partially fluorinated linear alcohols</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</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

Heavy Metals

<u>Name</u>	<u>CAS-Nr.</u>	<u>Name</u>	<u>CAS-Nr.</u>
Sb (Antimony)	7440-36-0, et. al.	Cu (Copper)	7440-50-8, et. al.
As (Arsenic)	7440-38-2, et. al.	Ni (Nickel)	7440-02-0, et. al.
Pb (Lead)	7439-92-1, et. al.	Hg (Mercury)	7439-97-6, et. al.
Cd (Cadmium)	7440-43-9, et. al.	Ba (Barium)	7440-39-3, et. al.
Cr (Chromium)	7440-47-3, et. al.	Se (Selenium)	7782-49-2, et. al.
Co (Cobalt)	7440-48-4, et. al.		