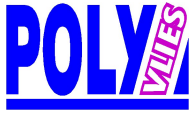


<u>Substance</u>	<u>Threshold value</u>	<u>Relevance especially for</u>	<u>Remark (analysis)</u>
Azodyes with carcinogenic amines according annex A	Not detectable (nd), detection limit 20 mg/kg	All dyed components	Textiles: DIN EN 14362-1 4-Amino-azobenzene: Textiles: DIN EN 14362-3
Carcinogenic dyes according annex B	nd, detection limit 50 mg/kg	All dyed components	DIN 54231 (GC-MS after extraction with Methanol)
Lead	90 mg/kg	Synthetic fibers, luminous orange, luminous yellow	EN 1122-2001 (acid digestion followed by ICP analysis)
Navy Blue, Blue Azodye CAS-No.: 118685-33-9	nd, detection limit 20 mg/kg	Environmentally hazardous dye for all dyed components	DIN 54231 (GC-MS after extraction with Methanol)
PAH according annex C1 (8 PAH restricted by law) and C2 (in addition, from other RSLs)	In sum 1 mg/kg for PAH acc. C1 and in sum 10 mg/kg for PAH acc. C1 and C2	Black plastic components Both lists	AfPS GD 2014-01 PAH (only method, <u>not</u> PAH list and limit values)
Tin organic compounds according annex D	2 mg/kg for each di-, 1 mg/kg for each tri-substituted substance	Silicone- and PU-applications / coatings	ISO 17353 2004-09
Phthalate according annex E	each 0,1 %	Plasticiser for PVC, PU	Textiles: ISO 14389:2014, Kunststoff EN 14372

Created: : Christina Vatheuer-Effertz	Changed:	Checked and approved:* Michael Bröker
Date: 02.11.2021	Date:	Date: 02.11.2021

*) Original mit Unterschrift liegt bei dem Qualitätsmanagementbeauftragten

<u>Substance</u>	<u>Threshold value</u>	<u>Relevance especially for</u>	<u>Remark (analysis)</u>
Spinning solvents DMF (Dimethylformamide) CAS-No.: 68-12-2 DMAC (Dimethylacetamide) CAS-No.: 127-19-5	each 0,1%	DMF: spinning solvent for some acrylic fibers; very relevant for PU-coatings (leatherette) DMAC: spinning solvent for some acrylic types and elastane	Headspace GC-MS
Alkylphenole ethoxylates according annex F (NP,OP,OPE,NPE)	each 0,1 %	NPE as tenside in washing agents (wool laundry, precast finishing)	Extraction with solvent, GC-MS or LC-MS
PFOA CAS-No.: 335-67-1, its salts and PFOA-related compounds and PFOS CAS-No.: 763-23-1	PFOS: 1 µg/m ² PFOA, its salts and PFOA-related compounds: nd	PFOS: only coatings PFOA: fluorocarbon resin finishing (C8-chemistry for hydrophobic and oleophobic finishing)	Extraction with solvent, LC-MS
Formaldehyde CAS-No.: 50-00-0	300 ppm without skin contact	Finishing like easy-care, crease-resist, easy-iron, water-repellent and dirt-repellent, many coatings	ISO 14184-1:2011
Biocides: Dimethylfumarate CAS-No.: 624-49-7 Triclosan CAS-No.: 3380-34-5	0,1 mg/kg nd, detection limit 0,5 mg/kg	Storage and transport conservation	Extraction with organic solvent, GC-MS or LC-MS
Chlorinated phenols according annex G	nd, detection limit 0,5 mg/kg		Extraction followed by GC-MS
Short chain chlorinated paraffins CAS-No.: 85535-84-8	0,1%		EN-ISO 18219 (modified)
Flame retardants according annex H	nd, detection limit 50 mg/kg	Plasticiser for leather and flame retardants	Extraction with organic solvent, GC-MS or LC-MS



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<u>Substance</u>	<u>Threshold value</u>	<u>Relevance especially for</u>	<u>Remark (analysis)</u>
Orthoboric acid, sodium salt according annex I	0,1 %	flame retardants and pesticides for e.g. hemp, wool	
Medium-chain chlorinated paraffins (MCCP) according annex J	0,1 %	Flame retardants and plasticiser	


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Annex A: list of azodyes with carcinogenic amines

Substance	CAS-Number
4-Aminobiphenyl	92-67-1
Benzidine	92-87-5
4-Chloro-ortho-toluidine	95-69-2
2-Naphtylamine	91-59-8
2-Aminoazotoluene	97-56-3
2-Methyl-5-nitroaniline	99-55-8
4-Chloroaniline	106-47-8
4-Methoxy-1,3-phenylenediamine	615-05-4
4,4'-Diaminodiphenylmethane	101-77-9
3,3'-Dichlorobenzidine	91-94-1
3,3'-Dimethoxybenzidine	119-90-4
4,4'-Bi-o-toluidine	119-93-7
4,4-Methylenedi-o-toluidine	838-88-0
6-Methoxy-m-toluidine	120-71-8
2,2'-Dichloro-4,4'-methylenedianiline	101-14-4
4,4'-Diaminodiphenyl ether	101-80-4
4,4'-Thiodianiline	139-65-1
o-Toluidine	95-53-4
4-Methyl-m-phenylenediamine	95-80-7
2,4,5-Trimethylaniline	137-17-7
2-Methoxyaniline	90-04-0
4-Aminoazobenzene	60-09-3
2,4-Dimethylaniline	95-68-1
2,6-Dimethylaniline	87-62-7

Annex B: List of carcinogenic dyes

Substance	CAS-Number
C.I. Acid Red 26,	3761-53-3
C.I. Basic Red 9, Basic Fuchsin	569-61-9
C.I. Direct Black 38	1937-37-7
C.I. Direct Blue 6	2602-46-2
C.I. Direct Red 28	573-58-0
C.I. Basic Violet 14, Fuchsin	632-99-5
C.I. Pigment Red 104	12656-85-8
C.I. Pigment Yellow 34	1344-37-2
Disperse Blue 1	2475-45-8
Disperse Blue 3	2475-46-9
Disperse Orange 11	82-28-0
Disperse Orange 149	85136-74-9
Disperse Yellow 23	6250-23-3

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Anhang C1: List of PAH regulated by law

Substance	CAS-Number
Benzo(a)pyrene	50-32-8
Benzo(e)pyrene	192-97-2
Benz(a)anthracene	56-55-3
Chrysene	218-01-9
Benz(e)acephenanthrylene	205-99-2
Benzo(j)fluoranthene	205-82-3
Benzo(k)fluoranthene	207-08-9
Dibenz(a,h)anthracene	53-70-3

Annex C2: List of PAH regulated in addition from other RSLs


Substance	CAS-Number
Anthracene	120-12-7
Pyrene	129-00-0
Benzo[ghi]perylene	191-24-2
Ideno[1,2,3-cd]pyrene	193-39-5
Fluoranthene	206-44-0
Acenaphthylene	208-96-8
Acenaphthene	83-32-9
Phenanthrene	85-01-8
Fluorene	86-73-7
Naphthalene	91-20-3

Annex D: List of tin organic compounds

Substance	CAS-Number
Dibutylzinn	14488-53-0
Diocetylzinn	15231-44-4
Tributylzinn	56573-85-4
Triphenylzinn	668-34-8

Annex E: List of regulated phthalates

Substance	CAS-Number
Di-iso-butyl phthalate (DIBP)	84-69-5
Di-iso-nonyl phthalate (DINP)	28553-12-0 68515-48-0
Di-(2-ethyl-hexyl) phthalate (DEHP)	117-81-7
Di-n-octyl phthalate (DNOP)	117-84-0
Di-iso-decyl phthalate (DIDP)	26761-40-0 68515-49-1
Butyl-benzyl phthalate (BBP)	85-68-7

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Di-butyl phthalate (DBP)	84-74-2
Di (C7-C11 alkyl) phthalate Linear and branched (DHNUP)	68515-42-4
Di-(C6-C8 alkyl) phthalate Branched (DIHP)	71888-89-6
Bis-(2-methoxy-ethyl) phthalate (BMEP)	117-82-8
Di-n-hexyl phthalate (DHP)	84-75-3
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0
Di-iso-pentyl phthalate (DIPP)	605-50-5
N-pentyl-iso-pentyl phthalate (PIPP)	776297-69-9
Di-pentyl phthalate (DPP)	131-18-0

Annex F: List of regulated alkylphenole ethoxylates

Substance	CAS-Number
Nonylphenol (NP), Isomerengemisch	104-40-5 11066-49-2 25154-52-3 84852-15-3
Octylphenol (OP), Isomerengemisch	140-66-9 1806-26-4 27193-28-8
Octylphenol ethoxylates (OPE)	9002-93-1 9036-19-5 68987-90-6
Nonylphenol ethoxylates (NPE)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0
4,4'-(1-methylpropylidene)bisphenol	77-40-7
Phenol, 4-dodecyl, branched	210555-94-5
4-isododecylphenol	27459-10-5
Phenol, 4-isododecyl-	27147-75-7
Phenol, dodecyl-, branched	74499-35-7
Phenol, (tetrapropenyl) derivatives	57427-55-1

Annex G: List of chlorinated phenols

Substance	CAS-Number
Tetrachlorphenol (TeCP)	25167-83-3
Pentachlorphenol (PCP)	87-86-5
2,3,4,5,-tetrachlorphenol	4901-51-3
2,3,4,6-tetrachlorphenol	58-90-2
2,3,4,6-tetrachlorphenol	935-95-5

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2-Chlorphenol	95-57-8
2,4-dichlorphenol	120-83-2
2,5-dichlorphenol	583-78-8
2,6-dichlorphenol	87-65-0
2,4,5-trichlorphenol	95-95-4
2,4,6-trichlorphenol	88-06-2
3,5-dichlorphenol	591-35-5
2,3-dichlorphenol	576-24-9
3,4-dichlorphenol	95-77-2
3-Chlorphenol	108-43-0
4-Chlorphenol	106-48-9
2,3,4-trichlorphenol	15950-66-0
2,3,5-trichlorphenol	933-78-8
3,4,5-trichlorphenol	609-19-8

Annex H: List of flame-retardants

Substance	CAS-Number
Tris(2-Chloroethyl)phosphate (TCEP)	115-96-8
Decabromodiphenyl ether (DecaBDE)	1163-19-5
Tris(2,3-dibromopropyl)-phosphate (TRIS)	126-72-7
Pentabromodiphenyl ether (PentaBDE)	32534-81-9
Octabromodiphenyl ether (OctaBDE)	32536-52-0
Bis(2,3-dibromopropyl)phosphate (BIS)	5412-25-9
Tris(1-aziridinyl)phosphne oxide (TEPA)	545-55-1
Polybromobiphenyls (PBB)	59536-65-1
Tetrabromobisphenol A (TBBPA)	79-94-7
Hexabromocyclodecane (HBCDD)	3194-55-6
2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	3296-90-0
Tris(1,3-dichloro-isopropyl)phosphate (TDCPP)	13674-87-8
Boric Acid	10043-35-3 11113-50-1
Hexabromocyclododecane HBCDD	25637-99-4

Annex I: List of orthoboric acid, sodium salt

Stoffe	CAS-Nummer
boric acid (H3BO3), sodium salt, hydrate	25747-83-5
Boric acid (H3BO3), disodium salt	22454-04-2
Trisodium orthoborate	14312-40-4
Boric acid, sodium salt	1333-73-9
Orthoboric acid, sodium salt	13840-56-7
Boric acid (H3BO3), sodium salt (1:1)	14890-53-0

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Annex J: List of MCCP (medium-chain chlorinated paraffins)

Stoffe	CAS-Nummer
Alkanes, C14-16, chloro	1372804-76-6
Alkanes, C14-17, chloro	85535-85-9
Tetradecane, chloro derivs.	198840-65-2