

# Kaufland Manufacturing Restricted Substances List (MRSL)

## March 2018

The Kaufland MRSL defines the hazardous chemicals which need to be eliminated from the production and products (apparel, footwear and home textiles) till 2020. For all chemicals limit values for products, waste water, sludge and input chemicals have been defined. These detection/reporting limits and test methods will be revised - at least yearly, to always reflect best current technology using lowest detection/reporting limits. At any step of the supply chain, responsible handling of chemicals (purchase, use and disposal) must be implemented. Kaufland strategy to eliminate hazardous chemicals in the supply chain and improve chemical management will be achieved by strengthening both training and auditing at our suppliers.

Kaufland MRSL 定义了2020前必须从生产和产品（服装、鞋类和家用纺织品）中淘汰的危险化学品及其在废水、污泥和化学原料中的检测方法及检出限。  
 这一MRSL将被每年更新一次，以反映最新的化学品信息和检测技术。供应链的每一步都必须实施有效的化学品管理（购买、使用和处置）。  
 Kaufland将通过对供应商的培训和审核来达到在供应链上消除危险化学品和提高化学品管理的目标。

		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
<b>1. Alkylphenols (AP)/Alkylphenol ethoxylate (APEO) 烷基酚/烷基酚聚氧乙烯醚</b>								
4-(1,1,3,3-Tetramethylbutyl)-phenol (octylphenols)	140-66-9	1	0,4	OP, NP, HpP, PeP sum 10 OP, NP, HpP, PeP, OPEO, NPEO sum 100	100	Solvent extraction DIN EN ISO 18857 LC/MS mod, resp. NPEO(1+2): GC/MS	Solvent extraction DIN EN ISO 18857 LC/MS mod, resp. NPEO(1+2): GC/MS	organic solvent extract followed by LC-MS or GC- MS analysis
OctylPhenol	27193-28-8	1	0,4		100			
4-Octylphenol	1806-26-4	1	0,4		100			
Nonylphenol NP	various	1	0,4		100			
4-Nonylphenol	25154-52-3	1	0,4		100			
Nonylphenol	104-40-5	1	0,4		100			
Nonylphenol	90481-04-2	1	0,4		100			
4-Nonylphenol (branched)	84852-15-3	1	0,4		100			
Nonylphenol	1173019-62-9	1	0,4		100			
Nonylphenol Ethoxylates NPEO (1-2)	various	1	0,4		100			
Nonylphenol Ethoxylates NPEO (3-18)	various	1	0,4		100			
(Nonylphenoxy)-polyethylenoxid	9016-45-9	1	0,4		100			
4-Nonylphenol, ethoxylated	26027-38-3	1	0,4		100			
(NPEs 3-18) Poly(oxy-1,2-ethanediy), .alpha.-(nonylphenyl)-.omega.-hydroxy-, branched	68412-54-4	1	0,4		100			
4-Nonylphenol, branched, ethoxylated	127087-87-0	1	0,4		100			
Isononylphenol-ethoxylate	37205-87-1	1	0,4		100			
Octylphenol Ethoxylates OPEO (1-2)	various	1	0,4		100			
Octylphenol Ethoxylates OPEO (3-18)	various	1	0,4		100			
(OPEs 3-18) alpha-[4-(1,1,3,3-Tetramethylbutyl)phenyl]-w-hydroxypoly(oxy-1,2-ethandiy) (SIN List OPEs)	9002-93-1	1	0,4	100				

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4-tert-Octylphenoethoxylate	9036-19-5	1	0,4		100			
4-tert-Octylphenoethoxylate	68987-90-6	1	0,4		100			
Heptylphenol	various	1	0,4		n.a.			
Pentylphenol	various	1	0,4		n.a.			
<b>2. Phthalates / Plasticizers 邻苯二甲酸酯/塑化剂</b>								
Di-Butyl Phthalate (DBP)	84-74-2	1	0,3		Sum 1000	Extraction with toluene, GC/MS resp. LC/MS.	Extraction with toluene, GC/MS resp. LC/MS.	EN ISO TS 16181; EN 14389; Solvent
Di(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	1	0,3		Sum 1000			EN ISO TS 16181; EN 14389; Solvent
Benzyl Butyl Phthalate (BBP)	85-68-7	1	0,3			Extraction with toluene, GC/MS resp. LC/MS.	Extraction with toluene, GC/MS resp. LC/MS.	Extraction & GC-MS analysis.
Di-Iso-Nonyl Phthalate (DINP)	28553-12-0, 68515-48-0	1	0,3					
Di-N-Octyl Phthalate (DNOP)	117-84-0	1	0,3					
Di-Iso-Decyl Phthalate (DIDP)	26761-40-0, 68515-49-1	1	0,3					
Di-Iso-Butyl Phthalate (DIBP)	84-69-5	1	0,3		< 1000			
Di-N-Hexyl Phthalate (DNHP)	84-75-3	1	0,3		< 1000			
Di-(2-methoxyethyl)phthalate (DMEP)	117-82-8	1	0,3		< 1000			
DHNUP	68515-42-4	1	0,3		< 1000			
DIHP	71888-89-6	1	0,3		< 1000			
DPP	131-18-0	1	0,3		n.a.			
Diisopentylphthalate	605-50-5	1	0,3	sum 100/1000	< 1000	Extraction with toluene GC/MS resp. LC/MS.	Extraction with toluene GC/MS resp. LC/MS.	EN ISO TS 16181; EN 14389; Solvent
N-pentyl-isopentylphthalate	776297-69-9	1	0,3		< 1000			Extraction & GC-MS analysis.
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	1	0,3		< 1000			
1,2-Benzenedicarboxylic acid, dihexylester, branched and linear	68515-50-4	1	0,3		n.a.			
1,2-benzenedicarboxylic acid, di-C6-10alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (CAS 84-75-3)	68515-51-5 / 68648-93-1	1	0,3		n.a.	Extraction with toluene GC/MS resp. LC/MS.	Extraction with toluene GC/MS resp. LC/MS.	EN ISO TS 16181; EN 14389; Solvent
Dicyclohexylphthalate	84-61-7	1	0,3		n.a.			Extraction & GC-MS analysis.
Dinonyl phthalate (DNP)	84-76-4	1	0,3		n.a.	Extraction with toluene GC/MS resp. LC/MS.	Extraction with toluene GC/MS resp. LC/MS.	
Diethyl phthalate (DEP)	84-66-2	1	0,3		n.a.			
Di-n-propyl phthalate (DPRP)	131-16-8	1	0,3		n.a.	Extraction with toluene GC/MS resp. LC/MS.	Extraction with toluene GC/MS resp. LC/MS.	
Di-iso-octyl phthalate (DIOP)	27554-26-3	1	0,3		n.a.			

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Di-iso-hexylphthalate	71850-09-4	1	0,3		n.a.	Extraction with toluene GC/MS resp. LC/MS.	Extraction with toluene GC/MS resp. LC/MS.	
DEHA Bis(2-ethylhexyl) adipate	103-23-1	1	0,3	1000	< 1000			
DEHT Bis(2-ethylhexyl)ester	6422-86-2	1	0,3	1000	< 1000			
<b>3. Brominated and Chlorinated Flame Retardants 溴化及氯化阻燃剂</b>								
Polybrominated biphenyls (PBB)	59536-65-1	0,05	0,3	use banned (≤ 100)	n.a.	Extraction with toluene, GC-MS resp. LC/MS.	Extraction with toluene, GC-MS resp. LC/MS.	DIN EN ISO 17881-2 Solvent extraction followed by GC MS or HPLC- MS analysis.
Monobromo biphenyls (MonoBBs)	Various	0,05	0,3	use banned (≤ 100)	n.a.			
Dibromo biphenyls (DiBBs)	-	0,05	0,3	use banned (≤ 100)	n.a.			
Tribromo biphenyls (TriBBs)	-	0,05	0,3	use banned (≤ 100)	n.a.			
Tetrabromo biphenyls (TetraBBs)	-	0,05	0,3	use banned (≤ 100)	n.a.			
Pentabromo biphenyls (PentaBBs)	-	0,05	0,3	use banned (≤ 100)	n.a.			
Hexabromo biphenyls (HexaBBs)	-	0,05	0,3	use banned (≤ 100)	n.a.			
Heptabromo biphenyls (HeptaBBs)	-	0,05	0,3	use banned (≤ 100)	n.a.			
Octabromo biphenyls (OctaBBs)	-	0,05	0,3	use banned (≤ 100)	n.a.			
Nonabromo biphenyls (NonaBBs)	-	0,05	0,3	use banned (≤ 100)	n.a.			
Decabromo biphenyl (DecaBB)	13654-09-6	0,05	0,3	use banned (≤ 100)	n.a.			
Polybrominated diphenyl ethers (PBDEs)	various	0,05	0,3	n.a.	n.a.	Extraction with toluene, GC-MS resp. LC/MS.	Extraction with toluene, GC-MS resp. LC/MS.	DIN EN ISO 17881-2 Solvent extraction followed by GC MS or HPLC- MS analysis.
Monobromo diphenyl ethers (MonoBDEs)	-	0,05	0,3	n.a.	n.a.			
Dibromo diphenyl ethers (DiBDEs)	-	0,05	0,3	n.a.	n.a.			
Tribromo diphenyl ethers (TriBDEs)	-	0,05	0,3	n.a.	n.a.			
Tetrabromo diphenyl ethers (TetraBDE)	40088-47-9	0,05	0,3	use banned (≤ 100)	n.a.			
Pentabromo diphenyl ethers (PentaBDE)	32534-81-9	0,05	0,3	use banned (≤ 100)	n.a.			
Hexabromo diphenyl ethers (HexaBDE)	36483-60-0	0,05	0,3	use banned (≤ 100)	n.a.			
Heptabromo diphenyl ethers (HeptaBDE)	68928-80-3	0,05	0,3	use banned (≤ 100)	n.a.			
Octabromo diphenyl ethers (OctaBDE)	32536-52-0	0,05	0,3	use banned (≤ 100)	n.a.			
Nonabromo diphenyl ethers (NonaBDE)	63936-56-1	0,05	0,3	n.a.	n.a.			

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Decabromo diphenyl ether (DecaBDE)	1163-19-5	0,05	0,3	use banned (≤ 100)	1000	Extraction with toluene, GC-MS resp. LC/MS.	Extraction with toluene, GC-MS resp. LC/MS.	DIN EN ISO 17881-2 Solvent extraction followed by GC MS or HPLC- MS analysis.
Tris(2,3-Dibromopropyl)-Phosphate	126-72-7	0,5	0,25	use banned (≤ 100)	n.a.			
Tris(2-Chloroethyl)Phosphate (TCEP)	115-96-8	0,05	0,5	use banned (≤ 100)	n.a.			
Hexabromocyclododecane (HBCDDs)	134237-50-6, 134237-51-7, 134237-52-8, 25637- 99-4, 3194-55- 6	0,5	0,25	use banned (≤ 100)	200 /1000			
Tetrabromo-bisphenol A (TBBPA)	79-94-7	0,5	0,25	use banned (≤ 100)	n.a.			
Bis (2,3-dibromopropyl) phosphate (TRIS)	5412-25-9	25	0,25	use banned (≤ 100)	n.a.	Extraction with toluene, GC-MS resp. LC/MS.	Extraction with toluene, GC-MS resp. LC/MS.	DIN EN ISO 17881-2 Solvent extraction followed by GC MS or HPLC-
Tris(1,3-dichloro-2-propyl)phosphate (TDCPP)	13674-87-8	0,5	0,5	use banned (≤ 100)	n.a.			
Tris (1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	0,5	0,5	use banned (≤ 100)	n.a.			
2,2-Bis(bromomethyl)1,3-propanediol	3296-90-0	0,5	0,5	use banned (≤ 100)	n.a.	Extraction with toluene, GC-MS resp. LC/MS.	Extraction with toluene, GC-MS resp. LC/MS.	DIN EN ISO 17881-2 Solvent extraction followed by GC MS or HPLC- MS analysis.
<b>Subgroup: Other Flame Retardant</b>								
TEPA	545-55-1	0,5	0,5	use banned (≤ 100)	n.a.	Extraction with toluene, GC-MS resp. LC/MS.	Extraction with toluene, GC-MS resp. LC/MS.	DIN EN ISO 17881-2 Solvent extraction followed by GC MS or HPLC- MS analysis.  For boron and
Sodium tetraborate	1303-96-4 1330-43- 4 12179-04-3	5	1	use banned (≤ 100)	n.a.	total digestion, ICP/MS, for total boron	total digestion, ICP/MS, for total boron	
Boron trioxide	1303-86-2	5	1	use banned (≤ 100)	n.a.			
Boric acid	10043-35-3 11113- 50-1	5	1	use banned (≤ 100)	n.a.			

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Tetraboron disodium heptaoxide, hydrate	12267-73-1	tbd	tbd	use banned (≤ 100)	n.a.			antimony (total); Microwave extraction followed by ICP-MS analysis.
Tri-o-cresyl phosphate	78-30-8	0,5	0,5	n.a.	n.a.	Extraction with toluene, GC-MS resp. LC/MS.	Extraction with toluene, GC-MS resp. LC/MS.	
Trixylylphosphate (TXP)	25155-12-1	tbd	tbd	use banned (≤ 100)	n.a.			
Antimony pentoxid (Sb205)	1314-60-9	tbd	tbd	use banned (≤ 100)	n.a.	ISO 11885	ISO 11885	
Antimony trioxide	1309-64-4	1	1	n.a.	n.a.			
<b>4. Amines (associated with Azo dyes) 胺(与偶氮染料相关)</b>								
4-Aminodiphenyl	92-67-1	0,1	0,3	sum 20	20	With teference to EN14362:1&3 , followed by GC/MS and /or HPLC	With teference to EN14362:1&3 , followed by GC/MS and /or HPLC	EN 14362-1 & -3 (Textile); ISO 17234-1 & -2 (Leather).
Benzidine	92-87-5	0,1	0,3		20			
4-Chloro-o-Toluidine	95-69-2	0,1	0,3		20			
2-Naphthylamine	91-59-8	0,1	0,3		20			
o-Aminoazotoluene	97-56-3	0,1	0,3		20			
2-Amino-4-Nitrotoluene	99-55-8	0,1	0,3		20			
p-Chloroaniline	106-47-8	0,1	0,3		20			
2,4-Diaminoanisole	615-05-4	0,1	0,3		20			
4,4'-Diaminodiphenylmethane	101-77-9	0,1	0,3		20			
3,3'-Dichlorobenzidine	91-94-1	0,1	0,3		20			
3,3'-Dimethoxybenzidine	119-90-4	0,1	0,3		20			
3,3'-Dimethylbenzidine	119-93-7	0,1	0,3		20			
3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	0,1	0,3		20			
p-Cresidine	120-71-8	0,1	0,3		20			
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	0,1	0,3		20			
4,4'-Oxydianiline	101-80-4	0,1	0,3		20			
4,4'-Thiodianiline	139-65-1	0,1	0,3		20			
o-Toluidine	95-53-4	0,1	0,3		20			
2,4-Toluylenediamine	95-80-7	0,1	0,3		20	With Reference To EN 14362:1&3 And Followed By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic	With Reference To EN 14362:1&3 And Followed By Gas Chromatographic - Mass Spectrometric (GC- MS) And High Performance Liquid Chromatographic	EN 14362-1 & -3 (Textile); ISO 17234-1 & -2 (Leather).
2,4,5-Trimethylaniline	137-17-7	0,1	0,3		20			

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o-Anisidine	90-04-0	0,1	0,3		20	With Reference To EN14362:1&3 And Followed By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic	With Reference To EN14362:1&3 And Followed By Gas Chromatographic - Mass Spectrometric (GC- MS) And High Performance Liquid Chromatographic	EN 14362-1 & -3 (Textile); ISO 17234-1 & -2 (Leather).
p-Aminoazobenzene	60-09-3	0,1	0,3		5			
2,4-Xylidine	95-68-1	0,1	0,3		5			
2,6-Xylidine	87-62-7	0,1	0,3		5			
<b>Subgroup: Navy Blue Colourant</b>								
Component 1 (Navy blue)	118685-33-9	0,1	0,1	not used	not used	DIN 54231 HPLC	DIN 54231 HPLC	DIN 54231 Solvent extraction, HPLC-DAD- MS
Component 2 (Navy blue)	Not Allocated	0,1	0,1	not used	not used			
<b>Subgroup: Carcinogenic dyes 致癌染料</b>								
C.I Acid Red 26	3761-53-3	15	0,2	< 50.0	1	DIN 54231 Solvent extraction, HPLC- DAD-MS	DIN 54231 Solvent extraction, HPLC-DAD-MS	DIN 54231 Solvent extraction, HPLC-DAD- MS
C.I. Basic Red 9	569-61-9	15	0,2	< 50.0	1			
C.I. Basic Violet 14	632-99-5	15	0,2	< 50.0	1			
C.I Direct Blue 6	2602-46-2	15	0,2	< 50.0	1			
C.I Direct Red 28	573-58-0	15	0,2	< 50.0	1			
C.I Direct Black 38	1937-37-7	15	0,2	< 50.0	1			
C.I Disperse Blue 1	2475-45-8	15	0,2	< 50.0	1			
C.I. Disperse Yellow 3	2832-40-8	15	0,2	< 50.0	1			
C.I. Disperse Orange 11	82-28-0	15	0,2	< 50.0	1			
C.I. Disperse Yellow 23	6250-23-3	15	0,2	< 50.0	1			
C.I. Disperse Orange 149	85136-74-9	15	0,2	< 50.0	1			
C.I. Solvent Yellow 2	60-11-7	15	0,2	n.a.	n.a.			
C.I. Solvent Yellow 14	842-07-9	15	0,2	n.a.	n.a.			
C.I. Basic Blue 26	2580-56-5	15	0,2	< 50.0	n.a.			
C.I. Basic Violet 1	8004-87-3	15	0,2	n.a.	n.a.			
C.I. Basic Violet 3	548-62-9	15	0,2	< 50.0	n.a.			

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C.I. Direct Brown 95	16071-86-6	15	0,2	< 50.0	n.a.			
C.I. Direct Blue 15	2429-74-5	15	0,2	< 50.0	n.a.			
C.I. Direct Blue 218	28407-37-6	15	0,2	n.a.	n.a.			
C.I. Acid Red 114	6459-94-5	15	0,2	< 50.0	n.a.			
C.I. Acid Violet 49	1694-09-3	15	0,2	n.a.	n.a.			
C.I. Basic Green 4 (malachite green)	10309-95-2	15	0,2	< 50.0	n.a.			
<b>Subgroup: Allergenic Disperse Dyes 致敏性分散染料</b>								
C.I. Disperse Blue 1	2475-45-8	15	0,2	< 50.0	75	DIN 54231 Solvent extraction, HPLC- DAD-MS	DIN 54231 Solvent extraction, HPLC-DAD-MS	DIN 54231 Solvent extraction, HPLC-DAD- MS
C.I. Disperse Blue 3	2475-46-9	15	0,2	< 50.0	75			
C.I. Disperse Blue 7	3179-90-6	15	0,2	< 50.0	75			
C.I. Disperse Blue 26	3860-63-7	15	0,2	< 50.0	75			
C.I. Disperse Blue 35	12222-75-2, 56524-77-7	15	0,2	< 50.0	75			
C.I. Disperse Blue 102	12222-97-8	15	0,2	< 50.0	75			
C.I. Disperse Blue 106	12223-01-7	15	0,2	< 50.0	75			
C.I. Disperse Blue 124	61951-51-7	15	0,2	< 50.0	75			
C.I. Disperse Brown 1	23355-64-8	15	0,2	< 50.0	75			
C.I. Disperse Orange 1	2581-69-3	15	0,2	< 50.0	75			
C.I. Disperse Orange 3	730-40-5	15	0,2	< 50.0	75			
C.I. Disperse Orange 37/76/59	13301-61-6	15	0,2	< 50.0	75			
C.I. Disperse Red 1	2872-52-8	15	0,2	< 50.0	75			
C.I. Disperse Red 11	2872-48-2	15	0,2	< 50.0	75			
C.I. Disperse Red 17	3179-89-3	15	0,2	< 50.0	75			
C.I. Disperse Yellow 1	119-15-3	15	0,2	< 50.0	75			
C.I. Disperse Yellow 3	2832-40-8	15	0,2	< 50.0	75			
C.I. Disperse Yellow 9	6373-73-5	15	0,2	< 50.0	75			
C.I. Disperse Yellow 39	12236-29-2	15	0,2	< 50.0	75			
C.I. Disperse Yellow 49	54824-37-2	15	0,2	< 50.0	75			
<b>5. Organotin compounds 有机锡化合物</b>								
MBT(Monobutyltin)	78763-54-9	0.01	0.01	1.0 /2.0	sum 1.0			
TPhT(Triphenyltin)	668-34-8	0.01	0.01	0.5 / 1.0				
DOT(Dioctyltin)	94410-05-6	0.01	0.01	1.0 /2.0				
DBT(Dibutyltin)	1002-53-5	0.01	0.01	1.0 /2.0				

		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
TBT(Tributyltin)	36643-28-4	0.01	0.01	0.5 / 1.0	0,025	With Reference to DIN EN17353, followed by GC/MS Analysis.	Extraction / Derivation followed by GC/MS analysis	Extraction / Derivation followed by GC/MS analysis
MOT(Monooctyltin)	15231-44-4	0.01	0.01	1.0 /2.0	n.a.			
DPhT(Diphenyltin)	1-95-6; 6381-0	0.01	0.01	1.0 /2.0	n.a.			
TeBT(Tetrabutyltin)	1461-25-2	0.01	0.01	1.0 /2.0	n.a.			
TCyT(TricyclohexylTin)	6056-50-4	0.01	0.01	1.0 /2.0	n.a.			
TPT(Tripropyltin)	NA	0.01	0.01	1.0 /2.0	n.a.			
TeET(Tetraethyltin)	597-64-8	0.01	0.01	1.0 /2.0	n.a.			
TBTO	56-35-9	0.01	0.01	n.a.	n.a.			
DBTC	683-18-1	0.01	0.01	n.a.	n.a.			
DBB	75113-37-0	0.01	0.01	n.a.	n.a.			
DMT (Dimethyltin)	various	0.01	0.01	1.0 /2.0	n.a.			
DPT (Diphenyltin)	various	0.01	0.01	1.0 /2.0	n.a.			
MT (Methyltin)	various	0.01	0.01	n.a.	n.a.			
TMT (Trimethyltin)	various	0.01	0.01	1.0 /2.0	n.a.			
TOT (Trioctyltin)	various	0.01	0.01	1.0 /2.0	n.a.			
<b>6. PFCs (Perfluorocarbon / Polyfluorinated Compounds)全氟化合物</b>								
PFOA	335-67-1	0,01	0,001	use banned	use banned	CEN/TS 15968 – modified	CEN/TS 15968 – modified	Solvent Extraction, LC- MSMS analysis.
PFNA	375-95-1	0,5	0,001	use banned	use banned			
PFBS	375-73-5 or 59933- 66-3	0,5	0,001	use banned	use banned			
4:2 FTOH	2043-47-2	0,5	0,01	use banned	use banned			
6:2 FTOH	647-42-7	0,5	0,01	use banned	use banned			
8:2 FTOH	678-39-7	0,5	0,01	use banned	use banned			
10:2 FTOH	865-86-1	0,5	0,01	use banned	use banned			
PFHxS	355-46-4	0,5	0,001	use banned	use banned			
PFHxA	307-24-4	0,5	0,001	use banned	use banned			
PFOS	1763-23-1	0,01	0,001	use banned	use banned			
POSF	307-35-7	0,5	0,01	use banned	use banned			
PFOSA	754-91-6	0,5	0,01	use banned	use banned			
N-Me-FOSA	31506-32-8	0,5	0,01	use banned	use banned			
N-Et-FOSA	4151-50-2	0,5	0,01	use banned	use banned			
N-Me-FOSE alcohol	24448-09-7	0,5	0,01	use banned	use banned			
N-Et-FOSE alcohol	1691-99-2	0,5	0,01	use banned	use banned			



		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
PFBA	375-22-4	0,5	0,001	use banned	use banned			
PFPeA	2706-90-3	0,5	0,001	use banned	use banned			
PFHpA	375-85-9	0,5	0,001	use banned	use banned			
PFDA	335-76-2	0,5	0,001	use banned	use banned	CEN/TS 15968:2010 – modified	CEN/TS 15968:2010 – modified	Solvent Extraction, LC- MSMS analysis.
PFUnA	2058-94-8	0,5	0,001	use banned	use banned			
PFDoA	307-55-1	0,5	0,001	use banned	use banned			
PFTTrA	72629-94-8	0,5	0,001	use banned	use banned			
PfteA	376-06-7	0,5	0,001	use banned	use banned			
PFHpS	375-92-8	0,5	0,001	use banned	use banned			
PFDS	335-77-3	0,5	0,001	use banned	use banned			
6:2 FTA	17527-29-6	0,5	0,01	use banned	use banned			
8:2 FTA	27905-45-9	0,5	0,01	use banned	use banned			
10:2 FTA	17741-60-5	0,5	0,01	use banned	use banned			
PF-3,7-DMOA	172155-07-6	0,5	0,001	use banned	use banned			
HPFHpA	1546-95-8	0,5	0,001	use banned	use banned			
4HPFUnA	34598-33-9	0,5	0,001	use banned	use banned			
1H, 1H, 2H, 2H-PFOS	27619-97-2	0,5	0,001	use banned	use banned			
<b>7. Chloro benzenes 氯苯</b>								
Dichlorobenzenes	various	0.02	0.01	Sum < 1	n.a.	Solvent extraction followed by GC- MS analysis.	Solvent extraction followed by GC- MS analysis.	Solvent extraction followed by GC- MS analysis.
1,2-Dichlorobenzene	95-50-1	0.02	0.01		n.a.			
1,3-Dichlorobenzene	541-73-1	0.02	0.01		n.a.			
1,4-Dichlorobenzene	106-46-7	0.02	0.01		n.a.			
Trichlorobenzenes	various	0.02	0.01		n.a.			
1,2,3-Trichlorobenzene	87-61-6	0.02	0.01		n.a.			
1,2,4-trichlorobenzene	120-82-1	0.02	0.01		n.a.			
1,3,5-Trichlorobenzene	108-70-3	0.02	0.01		n.a.			
Tetrachlorobenzene	12408-10-5	0.02	0.01		n.a.			
1,2,3,4-tetrachlorobenzene	634-66-2	0.02	0.01		n.a.			
1,2,3,5-tetrachlorobenzene	634-90-2	0.02	0.01		n.a.			
1,2,4,5-tetrachlorobenzene	95-94-3	0.02	0.01		n.a.			
Pentachlorobenzene	608-93-5	0.02	0.01		n.a.			
Hexachlorobenzene	118-74-1	0.02	0.01		n.a.			
Chlorobenzene	108-90-7	0.02	0.01	n.a.				

		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
<b>Chloro-Toluenes (solvents and biocides. Production dyes. Chemical Intermediates. Antifelting) 氯甲苯</b>								
2-chlorotoluene	95-49-8	0,02	0,01	Sum < 1	n.a.	Solvent extraction followed by GC-MS analysis.	Solvent extraction followed by GC-MS analysis.	DIN 54232 Solvent extraction followed by GC-MS analysis
3-chlorotoluene	108-41-8	0,02	0,01		n.a.			
4-chlorotoluene	106-43-4	0,02	0,01		n.a.			
2,3-dichlorotoluene	32768-54-0	0,02	0,01		n.a.	Solvent extraction followed by GC-MS analysis.	Solvent extraction followed by GC-MS analysis.	
2,4-dichlorotoluene	95-73-8	0,02	0,01		n.a.			
2,5-dichlorotoluene	19398-61-9	0,02	0,01		n.a.			
2,6-dichlorotoluene	118-69-4	0,02	0,01		n.a.	Solvent extraction followed by GC-MS analysis.	Solvent extraction followed by GC-MS analysis.	
3,4-dichlorotoluene	95-75-0	0,02	0,01		n.a.			
2,3,6-trichlorotoluene	2077-46-5	0,02	0,01		n.a.			
2,4,5-trichlorotoluene	6639-30-1	0,02	0,01		n.a.	Solvent extraction followed by GC-MS analysis.	Solvent extraction followed by GC-MS analysis.	
Benzotrichloride	98-07-7	0,02	0,01		n.a.			
Benzyl chloride	100-44-7	0,02	0,01		n.a.			
alpha, 2,4-trichlorotoluene	94-99-5	0,02	0,01		n.a.			
alpha, 2,6-trichlorotoluene	2014-83-7	0,02	0,01		n.a.			
alpha, 3,4-trichlorotoluene	102-47-6	0,02	0,01		n.a.			
alpha, alpha-dichlorotoluene (Benzalchloride)	98-87-3	0,02	0,01		n.a.			
alpha, alpha, 2,6-tetrachlorotoluene	81-19-6	0,02	0,01		n.a.			
alpha, alpha, alpha, 2-tetrachlorotoluene	2136-89-2	0,02	0,01		n.a.			
alpha, alpha, alpha, 4-tetrachlorotoluene	5216-25-1	0,02	0,01		n.a.			
2,3,4,5,6-pentachlorotoluene	877-11-2	0,02	0,01		n.a.			
<b>8. Chlorinated solvents 含氯溶剂</b>								
Dichloromethane	75-09-2	1	0.3	n.a.	n.a.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	GC-MS Headspace analysis.	
Chloroform	67-66-3	1	0.3	n.a.	n.a.			
Tetrachloromethane	56-23-5	1	0.3	n.a.	n.a.			
1,1,2-Trichloroethane	79-00-5	1	0.3	n.a.	n.a.			
1,1-Dichloroethane	75-34-3	1	0.3	n.a.	n.a.			
1,2-Dichloroethane	107-06-2	1	0.3	n.a.	n.a.			
Trichloroethylene	79-01-6	1	0.3	n.a.	n.a.			
Perchloroethylene	127-18-4	1	0.3	n.a.	n.a.			
1,1,1-trichloroethane	71-55-6	1	0.3	n.a.	n.a.			
1,1,1,2-Tetrachloroethane	630-20-6	1	0.3	n.a.	n.a.			
1,1,2,2-Tetrachloroethane	79-34-5	1	0.3	n.a.	n.a.			

		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
Pentachloroethane	76-01-7	1	0.3	n.a.	n.a.			
1,1-Dichloroethylene	75-35-4	1	0.3	n.a.	n.a.			
<b>Other VOCs 其它挥发性有机化合物</b>								
Methyl-ethyl ketone	78-93-3	20	0,3	n.a.	n.a.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	n.a.
Ethylbenzene	100-41-4	20	0,3	n.a.	n.a.			n.a.
Xylene	1330-20-7	20	0,3	n.a.	n.a.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	n.a.
Cyclohexanone	108-94-1	20	2	n.a.	n.a.			n.a.
2-ethoxyethylacetate	111-15-9	20	20	n.a.	n.a.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	n.a.
1,2,3-trichloropropane	96-18-4	20	10	n.a.	n.a.			n.a.
Acetophenone	98-86-2	20	0,3	n.a.	10			Solvent extraction and GC-MS analysis
2-phenyl-2-propanol	617-94-7	20	0,3	n.a.	10			
formamide	75-12-7	tbd	tbd	200	30			n.a.
N,N-dimethylformamide (DMFa)	68-12-2	20	0,3	1000	30/300			Solvent extraction and GC-MS
Bis-(2-methoxyethyl) ether	111-96-6	20	20	n.a.	n.a.			
1-methyl-2-pyrrolidone	872-50-4	20	50	1000	n.a.			n.a.
N,N-dimethylacetamide (DMAc)	127-19-5	20	20	1000	n.a.			n.a.
Styrene	100-42-5	20	0,3	n.a.	n.a.			n.a.
Benzene	71-43-2	20	0,3	n.a.	n.a.	n.a.		
Toluene	108-88-3	20	0,3	n.a.	n.a.	n.a.		
<b>9. Chloro phenols 含氯苯酚</b>								
Pentachlorophenols (PCP)	87-86-5	0.5	0.025	Sum 0.05 / 0.5	5			
Tetrachlorophenols (TeCP)	25167-83-3	0.5	0.025		0,5			
2,3,4,5-Tetrachlorophenol	4901-51-3	0.5	0.025		0,5			
2,3,4,6-Tetrachlorophenol	58-90-2	0.5	0.025		0,5			

		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
2,3,5,6-tetrachlorophenol	935-95-5	0.5	0.025		0,5	Extraction / Derivation followed by GC- MS analysis	Extraction / Derivation followed by GC- MS analysis	ISO 17070 Extraction / Derivation, GC MS analysis
Trichlorophenol (TriCP)	25167-82-2	0.5	0.025	Sum 0.2 / 2.0	5			
2,4,6-trichlorophenol	88-06-2	0.5	0.025		5			
2,3,4-trichlorophenol	15950-66-0	0.5	0.025		5			
2,3,5-trichlorophenol	933-78-8	0.5	0.025		5			
2,3,6-trichlorophenol	933-75-5	0.5	0.025		5			
2,4,5-trichlorophenol	95-95-4	0.5	0.025		5			
3,4,5-trichlorophenol	609-19-8	0.5	0.025		5			
Dichlorophenols (DiCP)	25167-81-1	0.5	0.025		Sum 0.5/3.0	n.a.		
2,3-dichlorophenol	576-24-9	0.5	0.025	n.a.		Extraction / Derivation followed by GC- MS analysis	Extraction / Derivation followed by GC- MS analysis	
2,4-dichlorophenol	120-83-2	0.5	0.025	n.a.				
2,5-dichlorophenol	583-78-8	0.5	0.025	n.a.		Extraction / Derivation followed by GC- MS analysis	Extraction / Derivation followed by GC- MS analysis	
2,6-dichlorophenol	87-65-0	0.5	0.025	n.a.				
3, 4-dichlorophenol	95-77-2	0.5	0.025	n.a.		Extraction / Derivation followed by GC- MS analysis	Extraction / Derivation followed by GC- MS analysis	
3, 5-dichlorophenol	591-35-5	0.5	0.025	n.a.				
Mono Chlorophenol	various	0.5	0.025	0.5/3.0	n.a.	Extraction / Derivation followed by GC- MS analysis	Extraction / Derivation followed by GC- MS analysis	
<b>10. SCCP 短链氯化石蜡</b>								
SCCP C 10-13	85535-84-8	0.4	0.03	100	1000	Extraction, GC/NCI/MS	Extraction, GC/NCI/MS	DIN EN ISO 18219, organic solvent extraction , GC- MS/NCI analysis
<b>11. Heavy metals 重金属</b>								
Cadmium(Cd)	7440-43-9	0.1	1	0.1 (extractable) 40 (total)	0.1 (extractable) 100 (total)	ISO 11885	ISO 11885	ISO 105-E04 acid perspiration extraction & ICP analysis. (Extractable) EN 1122-
Lead(Pb)	7439-92-1	1	1	0.2 / 1.0 (extractable); 90 (total)	0,8 (extractable) 90 (total)			

		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
Antimony (Sb)	7440-36-0	1	1	30 (extractable)	5 (extractable)			ISO 105-E04 acid perspiration extraction & ICP analysis.
Mercury(Hg)	7439-97-6	0.05	0,02	0.02 (extractable)	0,02 (extractable)	ISO 12846 or ISO 17852	ISO 12846 or ISO 17852	ISO 105-E04 acid perspiration extraction & ICP analysis.
Nickel(Ni)	7440-02-0	1	1	0.5/ 1.0 / 4.0 (extractable)	4 (extractable)			
Hexavalent Chromium(Cr-VI)	18540-29-9	1	1	not detectable < 0.5 (extractable)	not detectable < 3 (extractable)	ISO 18412	ISO 18412	DIN EN ISO 17075
Arsenic(As)	7440-38-2	1	1	0.2 / 1 (extractable)	0,2	ISO 11885	ISO 11885	ISO 105-E04 acid perspiration extraction & ICP analysis.
Chromium(Cr)	7440-47-3	1	1	1.0 / 2.0 (extractable)	3.0 leather: 200 (extractable)			
Copper(Cu)	7440-50-8	1	1	25 /50 (extractable)	50 (extractable)			
Zinc(Zn)	7440-66-6	1	4	n.a.	n.a.			
Manganese(Mn)	7439-96-5	1	1	n.a.	n.a.			
Cobalt (Co)	7440-48-4	1	1	1.0 / 4.0 (extractable)	4 (extractable)			ISO 105-E04 acid perspiration extraction & ICP analysis. (Extractable)
Beryllium & Beryllium oxide	10-41-7; 1304-56	tbd	tbd	n.a.	n.a.			
Vanadium pentoxide	1314-62-1	tbd	tbd	n.a.	n.a.			
<b>12. Antioxidants 抗氧化剂</b>								
2-Mercaptobenzothiazol	149-30-4	tbd	tbd	n.a.	10			n.a.
2,4,6-tri(t-butyl)Phenol	732-26-3	tbd	tbd	n.a.	n.a.			n.a.
2,6-di-tert-butyl-4-(1-methylpropyl)- hydroxybenzene	17540-75-9	tbd	tbd	n.a.	n.a.			n.a.
2,6-di-tert-butyl-4-(methylthioacetic acid, 2- ethylhexyl ester)-hydroxybenzene	80387-97-9	tbd	tbd	n.a.	n.a.			n.a.
6,6'-di-tert-butyl-4,4'-thiodi-m-cresol	96-69-5	tbd	tbd	n.a.	n.a.			n.a.
<b>13. Brominated solvents 含溴溶剂</b>								
1,2-dibromoethane	106-93-4	tbd	tbd	n.a.	n.a.			n.a.

		Limits 检出限				Test Method 检测方法		
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1-bromopropane; n-propyl bromide	106-94-5	tbd	tbd	n.a.	n.a.			n.a.
Bromoethane	74-96-4	tbd	tbd	n.a.	n.a.			n.a.
2-bromopropane	75-26-3	tbd	tbd	n.a.	n.a.			n.a.
<b>14. Azo dyes that release carcinogenic amines through reduction cleavage (in addition to the priority 11 examples linked to amines listed in EU &amp; Chines regulations)能释放出致癌胺的</b>								
(methylenebis(4,1-phenylenazo(1-(3(dimethylamino)propyl)-1,2-dihydro-6-hydroxy-4-methyl-2-oxopyridine-5,3-diy))) -1,1'-dipyridinium dichloride dihydrochloride	118658-99-4	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
Pigment Rot 53:1 (C.I. 15585:1); D&C Red No. 9	5160-02-1	tbd	tbd	n.a.	n.a.			n.a.
1,2-dihydro-6-hydroxy-4-methyl-1-[3-(1methylethoxy)propyl]-2-oxo-5-[[4-(phenylazo)phenyl]azo]-3-pyridinecarbonitrile	85136-74-9	15	0,2	< 50	1	based on DIN 54231	based on DIN 54231	based on DIN 54231
Diaminobenzidine [biphenyl-3,3',4,4'-tetrayl tetraamine]	91-95-2	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
diaminotoluene	25376-45-8	tbd	tbd	n.a.	n.a.			n.a.
N,N'-Diacetylbenzidine	613-35-4	tbd	tbd	n.a.	n.a.			n.a.
toluene-2,4-diammonium sulphate	65321-67-7	tbd	tbd	n.a.	n.a.			n.a.
<b>Dyes 染料</b>								
Methanaminium, N-[4-[bis[4(dimethylamino)phenyl]methylene]-2,5-cyclohexadien-1-ylidene]-N-methyl-, chloride	548-62-9	15	0,2	< 50.0	20	under development	under development	n.a.
C.I. 77332, C.I. Pigment Black 25, cobalt nickel gray periclase	68186-89-0	tbd	tbd	n.a.	n.a.			n.a.
C.I. 77900, C.I. Pigment Yellow 157, nickel barium titanium primrose priderite	68610-24-2	tbd	tbd	n.a.	n.a.			n.a.
D&C Red No. 19	81-88-9	tbd	tbd	n.a.	n.a.			n.a.
3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	tbd	tbd	n.a.	n.a.			n.a.
Auramine hydrochloride	2465-27-2	tbd	tbd	n.a.	n.a.			n.a.
C.I. Basic Green 4 leuco base	129-73-7	15	0,15	< 50.0	n.a.	based on DIN 54232	based on DIN 54233	based on DIN 54234
C.I. Basic Green 4 (Malachite Green Chloride)	569-64-2	15	0,15	< 50.0	n.a.			
C.I. Basic Green 4 (Malachite Green Oxalate)	2437-29-8	15	0,15	< 50.0	n.a.			
C.I. Pigment Brown 22	29398-96-7	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
C.I. Pigment Red 53; D&C Red No. 8	2092-56-0	tbd	tbd	n.a.	n.a.			n.a.
Pigment Red 168	4378-61-4	tbd	tbd	n.a.	n.a.			n.a.
<b>Dye intermediate 染料中间体</b>								

		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
3-amino-9-ethyl carbazole, 9-ethylcarbazol-3-ylamine	132-32-1	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
4,4-isobutylethylidenediphenol	6807-17-6	tbd	tbd	n.a.	n.a.			n.a.
4-amino-3-fluorophenol	399-95-1	tbd	tbd	n.a.	n.a.			n.a.
Anthraquinone	84-65-1	tbd	tbd	n.a.	n.a.			n.a.
anthraquinone, 1-hydroxy	129-43-1	tbd	tbd	n.a.	n.a.			n.a.
Carbazole	86-74-8	tbd	tbd	n.a.	n.a.			n.a.
diazomethane	334-88-3	tbd	tbd	n.a.	n.a.			n.a.
Dimethylcarbamoyl chloride	79-44-7	tbd	tbd	n.a.	n.a.			n.a.
quinoline	91-22-5	tbd	tbd	n.a.	n.a.			n.a.
potassium bromate	7758-01-2	tbd	tbd	n.a.	n.a.			n.a.
<b>15. dinitrotoluene 二硝基甲苯</b>								
2,4-dinitrotoluene	121-14-2	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
dinitrotoluene (isomer mixture)	25321-14-6	tbd	tbd	n.a.	n.a.			n.a.
2,3-dinitrotoluene	602-01-7	tbd	tbd	n.a.	n.a.			n.a.
2,6-Dinitrotoluene	606-20-2	tbd	tbd	n.a.	n.a.			n.a.
3,4-dinitrotoluene	610-39-9	tbd	tbd	n.a.	n.a.			n.a.
3,5-dinitrotoluene	618-85-9	tbd	tbd	n.a.	n.a.			n.a.
2,5-dinitrotoluene	619-15-8	tbd	tbd	n.a.	n.a.			n.a.
<b>16. epoxy intermediate (CMR) 环氧中间体</b>								
Epichlorohydrin	106-89-8	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
phenyl glycidyl ether; 2,3-epoxypropyl phenyl ether; 1,2-epoxy-3-phenoxypropane	122-60-1	tbd	tbd	n.a.	n.a.			n.a.
2,2'-bioxirane [1,2:3,4-diepoxybutane]	1464-53-5	tbd	tbd	n.a.	n.a.			n.a.
2,3-epoxypropyltrimethylammonium chloride; EPTAC; Oxiranemethanaminium, N,N,N-trimethyl chloride; Glycidyltrimethylammonium chloride	3033-77-0	tbd	tbd	n.a.	n.a.			n.a.
R-1-chloro-2,3-epoxypropane	51594-55-9	tbd	tbd	n.a.	n.a.			n.a.
Glycidol [2,3-epoxy-1-propanol]	556-52-5	tbd	tbd	n.a.	n.a.			n.a.
R-2,3-epoxy-1-propanol	57044-25-4	tbd	tbd	n.a.	n.a.			n.a.
1,3,5-tris-[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione	59653-74-6	tbd	tbd	n.a.	n.a.			n.a.
oxiranemethanol, 4-methylbenzene-sulfonate, (S)	70987-78-9	tbd	tbd	n.a.	n.a.			n.a.
ethylene oxide; oxirane	75-21-8	tbd	tbd	n.a.	n.a.			n.a.

		Limits 检出限				Test Method 检测方法		
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propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	tbd	tbd	n.a.	n.a.			n.a.
styrene oxide; (epoxyethyl)benzene; phenyloxirane	96-09-3	tbd	tbd	n.a.	n.a.			n.a.
<b>17. fibrous mineral 纤维矿物质</b>								
asbestos	nil	Declaration of no use	Declaratio n - of no use	not used	n.a.	under development	polarizing microscope	n.a.
erionite	12510-42-8	Declaration of no use	Declaratio n - of no use	n.a.	n.a.		under development	n.a.
<b>18. Glycols 甘醇</b>								
Bis(2-methoxyethyl)ether	111-96-6	20	20	n.a.	n.a.	Extraction, GC/MS	under development	n.a.
2-Methoxyethanol	109-86-4	30	tbd	n.a.	n.a.			n.a.
2-Methoxyethyl acetate	110-49-6	30	tbd	n.a.	n.a.			n.a.
Ethylene glycol dimethyl ether	110-71-4	30	tbd	n.a.	n.a.			n.a.
2-Ethoxyethanol	110-80-5	30	tbd	n.a.	n.a.			n.a.
2-Ethoxyethyl acetate	111-15-9	20	20	n.a.	n.a.			n.a.
1,2-diethoxyethane	629-14-1	30	tbd	n.a.	n.a.			n.a.
Ethylene glycol	107-21-1	30	tbd	n.a.	n.a.			n.a.
Triethylene glycol dimethyl ether (TEGDME)	112-49-2	30	tbd	n.a.	n.a.			n.a.
2-Methoxypropyl acetate	70657-70-4	30	tbd	n.a.	n.a.			n.a.
2-Methoxypropanol	1589-47-5	30	tbd	n.a.	n.a.			n.a.
<b>19. Monomers 单体</b>								
1,3-Butadiene	106-99-0	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
Acetaldehyde	75-07-0	tbd	tbd	n.a.	n.a.			n.a.
Acrylonitrile	107-13-1	tbd	tbd	n.a.	n.a.			n.a.
Aziridine [Ethyleneimine]	151-56-4	tbd	tbd	n.a.	n.a.			n.a.
aziridine, 2-methyl	75-55-8	tbd	tbd	n.a.	n.a.			n.a.
chloroprene (stabilized); 2-chlorobuta-1,3-diene	126-99-8	tbd	tbd	n.a.	n.a.			n.a.
dimethylsulfamoylchloride	13360-57-1	tbd	tbd	n.a.	n.a.			n.a.
Ethyl acrylate	140-88-5	tbd	tbd	n.a.	n.a.			n.a.
Isobutyl nitrite	542-56-3	tbd	tbd	n.a.	n.a.			n.a.
Isoprene	78-79-5	tbd	tbd	n.a.	n.a.			n.a.
Methylcarbamate	598-55-0	tbd	tbd	n.a.	n.a.			n.a.



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N-Vinyl-2-pyrrolidinone	88-12-0	tbd	tbd	n.a.	n.a.			n.a.
Propane sultone [1,3-propanesultone; 1,2-oxathiolane 2,2-dioxide]	1120-71-4	tbd	tbd	n.a.	n.a.			n.a.
Urethane (Ethyl carbamate)	51-79-6	tbd	tbd	n.a.	n.a.			n.a.
Vinyl bromide	593-60-2	tbd	tbd	n.a.	n.a.			n.a.
Vinyl chloride	75-01-4	tbd	tbd	n.a.	n.a.			n.a.
Acrylamide	79-06-1	tbd	tbd	n.a.	n.a.			n.a.
N-Methylolacrylamide	924-42-5	tbd	tbd	n.a.	n.a.			n.a.
<b>20. N-nitroso compounds N-亚硝基化合物</b>								
N-Nitrosopiperidine	100-75-4	tbd	tbd	n.a.	n.a.	under development, based on EN 12869	under development, based on EN 12870	n.a.
N-Nitrosomethylethylamine	10595-95-6	tbd	tbd	n.a.	n.a.			n.a.
N-Nitrosodiethanolamine	1116-54-7	tbd	tbd	n.a.	n.a.			n.a.
N-Ethyl-N-nitrosoanilin	612-64-6	tbd	tbd	n.a.	n.a.			n.a.
N-Methyl-N-nitrosoanilin	614-00-6	tbd	tbd	n.a.	n.a.			n.a.
N-Nitrosodi-n-propylamine	621-64-7	tbd	tbd	n.a.	n.a.			n.a.
N-Nitrosodimethylamine	62-75-9	tbd	tbd	n.a.	n.a.			n.a.
N-Methyl-N'-nitro-N-nitrosoguanidine	70-25-7	tbd	tbd	n.a.	n.a.			n.a.
N-Nitrosodiphenylamine	86-30-6	tbd	tbd	n.a.	n.a.			n.a.
N-Nitrosodiethylamine (NDEA)	55-18-5	tbd	tbd	n.a.	n.a.			n.a.
N-Nitrosodi-n-butylamine (NDBA)	924-16-3	tbd	tbd	n.a.	n.a.			n.a.
N-Nitrosopyrrolidine (NPYR)	930-55-2	tbd	tbd	n.a.	n.a.			n.a.
N-Nitrosomorpholine (NMOR)	59-89-2	tbd	tbd	n.a.	n.a.			n.a.
p-Nitrosodiphenylamine	156-10-5	tbd	tbd	n.a.	n.a.	n.a.		
<b>21. PAH 多环芳烃</b>								
Benzo[a]pyrene (BaP)	50-32-8	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			
Benzo[e]pyrene (BeP)	192-97-2	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			
Benzo[a]anthracene (BaA)	56-55-3	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			
Benzo[b]fluoranthene (BbFA)	205-99-2	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			
Benzo[j]fluoranthene (BjFA)	205-82-3	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			
Benzo[k]fluoranthene (BkFA)	207-08-9	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			
Chrysene (CHR)	218-01-9	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			
Dibenzo[a,h]anthracene (DBA <sub>h</sub> A)	53-70-3	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			
Benzo(g,h,i)perylene	191-24-2	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1			

		Limits 检出限				Test Method 检测方法		
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Indeno(1,2,3-cd)pyrene	193-39-5	tbd	1	0.2 / 0.5 / 1	0,2 / 0,5 / 1	AfPS GS 2014:01 PAH	AfPS GS 2014:01 PAH	Extraction with an organic solvent followed by GC MS analysis
Acenaphthylene	208-96-8	tbd	1	Sum 1,0 / 10 / 50	Sum 1,0 / 10 / 50			
Acenaphthene	83-32-9	tbd	1					
Fluorene	86-73-7	tbd	1					
Phenanthrene	85-01-8	tbd	1					
Pyrene	129-00-0	tbd	1					
Anthracene	120-12-7	tbd	1					
Fluoranthene	206-44-0	tbd	1					
Naphthalene	91-20-3	20	1	1.0 / 2.0 / 10	1,0 / 2,0 / 10			
Cyclopenta[cd]pyrene	27208-37-3	tbd	tbd	Sum 24 PAH 5.0 / 10	n.a.			
Dibenzo[a,e]pyrene	192-65-4	tbd	tbd		n.a.			
Dibenzo[a,h]pyrene	189-64-0	tbd	tbd		n.a.			
Dibenzo[a,i]pyrene	189-55-9	tbd	tbd		n.a.			
Dibenzo[a,l]pyrene	191-30-0	tbd	tbd		n.a.			
1-Methylpyrene	2381-21-7	tbd	tbd		n.a.			
Sum 18 PAH		not in scope	not in scope	Sum 1,0 / 10 / 50	Sum 0,2/1,0 /10 / 50			
Sum 24 PAH		not in scope	not in scope	Sum 5.0 / 10	n.a.			
Benzo[b]naphtho[2,1-d]thiophene	239-35-0	tbd	tbd	n.a.	n.a.			
Polycyclic Aromatic Compounds (PACs)	130498-29-2	tbd	tbd	n.a.	n.a.			
9,10-Benzophenanthren	217-59-4	tbd	tbd	n.a.	n.a.			
Anthracene oil, Coal tar pitch	65996-93-2	tbd	tbd	n.a.	n.a.			
Anthracene oil	90640-80-5	tbd	tbd	n.a.	n.a.			
Anthracene oil, anthracene paste	90640-81-6	tbd	tbd	n.a.	n.a.			
Anthracene oil, anthracenelow	90640-82-7	tbd	tbd	n.a.	n.a.			
Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	tbd	tbd	n.a.	n.a.			
Anthracene oil, anthracene paste, distn. Lights	91995-17-4	tbd	tbd	n.a.	n.a.			
<b>22. Petroleum distillates &amp; related chemicals 石油馏分及其相关化合物</b>								
extracts, petroleum, light naphthenic distillate solvent	64742-03-6	Declaration of no use	Declaratio n - of no use	n.a.	n.a.			n.a.

		Limits 检出限				Test Method 检测方法		
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distillate aromatic extract	64742-04-7	Declaration of no use	Declaration of no use	n.a.	n.a.	under development	under development	n.a.
extracts, petroleum, light paraffinic distillate solvent	64742-05-8	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
extracts, petroleum, heavy naphthenic distillate solvent	64742-11-6	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
distillates, petroleum, chemically neutralized middle	64742-30-9	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
solvent-dewaxed heavy paraffinic petroleum distillates	64742-65-0	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
benzin 140 - 300	8002-05-9	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
naphtha	8030-30-6	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
pitch	61789-60-4	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
petroleum naphtha	64741-41-9	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
hydrotreated light straight run (petroleum)	64742-49-0	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
distillates (petroleum), hydrotreated (mild) heavy naphthenic (9ci);	64742-52-5	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
hydrotreated heavy paraffinic petroleum distillates (mineral oil)	64742-54-7	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
distillates (petroleum), solvent-refined (mild) heavy paraffinic (9ci)	64741-88-4	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
distillates (petroleum), solvent-refined (mild) light paraffinic (9ci)	64741-89-5	Declaration of no use	Declaration of no use	n.a.	n.a.	n.a.		

		Limits 检出限				Test Method 检测方法		
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aromatic naphtha, type 1	64742-95-6	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
aromatic petroleum derivative solvent	68477-31-6	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
petrolatum	8009-03-8	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
Bitumen	64742-93-4	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
Coal Tar oil	65996-82-9	Declaration of no use	Declaration of no use	n.a.	n.a.			n.a.
<b>23. respirable particles 可吸入性粉尘</b>								
Aluminium oxide (particles of respirable size)	1344-28-1	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
Silica (particles of respirable size)	14464-46-1; 14808-60-7; 7631-86-9	tbd	tbd	n.a.	n.a.			n.a.
Titanium dioxide (particles of respirable size)	13463-67-7	tbd	tbd	n.a.	n.a.			n.a.
<b>24. Solvents 溶剂</b>								
1,4-Dioxane	123-91-1	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
Cyclododecane	294-62-2	tbd	tbd	n.a.	n.a.			n.a.
Ethanol	64-17-5	tbd	tbd	n.a.	n.a.			n.a.
Furan	110-00-9	tbd	tbd	n.a.	n.a.			n.a.
hexamethylphosphoramide (HEMPA)	680-31-9	tbd	tbd	n.a.	n.a.			n.a.
Methanol	67-56-1	tbd	tbd	n.a.	n.a.			n.a.
Methyl isobutyl ketone	108-10-1	tbd	tbd	n.a.	n.a.			n.a.
Nitrilotriacetic acid	139-13-9	tbd	tbd	n.a.	n.a.			n.a.
N-methylformamide	123-39-7	tbd	tbd	n.a.	n.a.	n.a.		
<b>25. Others 其它</b>								
(2-chloroethyl)(3-hydroxypropyl)ammonium chloride	40722-80-3	tbd	tbd	n.a.	n.a.			n.a.
(4-ethoxyphenyl)(3-(4-fluoro-3-phenoxyphenyl)propyl)dimethylsilane	105024-66-6	tbd	tbd	n.a.	n.a.			n.a.
(BHA) Butylated hydroxyanisole	25013-16-5	tbd	tbd	n.a.	n.a.			n.a.

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1-(2-amino-5-chlorophenyl)-2,2,2-trifluoro-1,1ethanediol,hydrochloride, containing <0,1 % 4-chloroaniline (EC No 203-401-0)	214353-17-0	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
2-butryl-3-hydroxy-5-thiocyclohexan-3-yl-cyclohex-2-en-1-one	94723-86-1	tbd	tbd	n.a.	n.a.			n.a.
2-nitroanisole	91-23-6	tbd	tbd	n.a.	n.a.			n.a.
2-nitronaphthalene	581-89-5	tbd	tbd	n.a.	n.a.			n.a.
2-Nitropropane	79-46-9	tbd	tbd	n.a.	n.a.			n.a.
2-nitrotoluene	88-72-2	tbd	tbd	n.a.	n.a.			n.a.
4,4'-Methylenbis(N-(1-methylpropyl)benzolamin)	5285-60-9	tbd	tbd	n.a.	n.a.			n.a.
4-Nitrobiphenyl	92-93-3	tbd	tbd	n.a.	n.a.			n.a.
5-Nitroacenaphthene	602-87-9	tbd	tbd	n.a.	n.a.			n.a.
7-methoxy-6-(3-morpholin-4-yl-propoxy)-3H-quinazolin-4-one Containing ≥ 0.5 % formamide (EC No 200-842-0)	199327-61-2	tbd	tbd	n.a.	n.a.			n.a.
AEEA [2-(2-aminoethylamino)ethanol]	111-41-1	tbd	tbd	n.a.	n.a.	n.a.		
Dimethyl fumarate (DMFu)	624-49-7	not in scope	not in scope	0.1	0,1	not in scope	not in scope	ISO/TS 16186
Aniline	62-53-3	0,1	0,1	100	n.a.	extraction, followed by GC/MS	extraction, followed by GC/MS	n.a.
Azobenzene	103-33-3	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
Carbon black	1333-86-4	tbd	tbd	n.a.	n.a.			n.a.
chloro-N,N-dimethylformiminium chloride	3724-43-4	tbd	tbd	n.a.	n.a.			n.a.
Colchicine	64-86-8	tbd	tbd	n.a.	n.a.			n.a.
Diazoaminobenzene	136-35-6	tbd	tbd	n.a.	n.a.			n.a.
Formaldehyde	50-00-0	tbd	tbd	75/300	20/75			EN ISO 17226-2; DIN EN ISO 14184-1
Hydrazine	302-01-2	tbd	tbd	n.a.	n.a.			n.a.
hydrazobenzene	122-66-7	tbd	tbd	n.a.	n.a.			n.a.
hydroquinone (1,4-Dihydroxybenzene)	123-31-9	tbd	tbd	n.a.	n.a.			n.a.
methoxyacetic acid	625-45-6	tbd	tbd	n.a.	n.a.			n.a.
Methylazoxymethanol acetate	592-62-1	tbd	tbd	n.a.	n.a.			n.a.
Michler's base (N,N,N',N'-tetramethyl-4,4'-methylenedianiline)	101-61-1	tbd	tbd	n.a.	n.a.			n.a.
N-(2-Naphthyl)anilin	135-88-6	tbd	tbd	n.a.	n.a.			n.a.

		Limits 检出限				Test Method 检测方法		
Substance 化合物名	CAS-no. CAS 编号	Waste water/废水 (µg/l)	Sludge/污泥 (mg/kg)	Product section /Textiles 产品/纺织类 (mg/kg)	Product section / Shoes 产品/鞋类 (mg/kg)	Output: Waste water 废水	Output: Sludge 污泥	Output: Products 产品
N,N-(dimethylamino)thioacetamide hydrochloride	27366-72-9	tbd	tbd	n.a.	n.a.			n.a.
N,N'-Bis-(1-ethyl-3-methylpentyl)-1,4-benzendiamin	139-60-6	tbd	tbd	n.a.	n.a.			n.a.
N,N-di-2-naphthyl-benzen-1,4-diamin (Diafen NN)	93-46-9	tbd	tbd	n.a.	n.a.			n.a.
N-[6,9-dihydro-9-[[2-hydroxy-1(hydroxymethyl)ethoxy]methyl]-6-oxo-1H-purin-2-yl]acetamide	84245-12-5	tbd	tbd	n.a.	n.a.			n.a.
O-isobutyl-N-ethoxy carbonylthiocarbamate	103122-66-3	tbd	tbd	n.a.	n.a.			n.a.
o-Phenylphenate, sodium	132-27-4	tbd	tbd	n.a.	n.a.			n.a.
o-Phenylphenol	90-43-7	0,5	0,025	20/50	n.a.	Extraction / Derivation followed by GC- MS analysis	Extraction / Derivation followed by GC- MS analysis	ISO 13365
Phenolphthalein	77-09-8	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
Phenylhydrazine	100-63-0	tbd	tbd	n.a.	n.a.			n.a.
phenylhydrazine hydrochloride	27140-08-5; 59-88-1	tbd	tbd	n.a.	n.a.			n.a.
phenylhydrazinium sulphate (2:1)	52033-74-6	tbd	tbd	n.a.	n.a.			n.a.
potassium 1-methyl-3-morpholinocarbonyl-4-[3-(1methyl-3-morpholinocarbonyl-5-oxo-2-pyrazolin-4-ylidene)-1-propenyl]pyrazole-5-olate containing < 0.5 % N,N-dimethylformamide (EC No 200-679-5),	183196-57-8	tbd	tbd	n.a.	n.a.			n.a.
Pyridine	110-86-1	tbd	tbd	n.a.	n.a.			n.a.
tetrahydrothiopyran-3-carboxaldehyde	61571-06-0	tbd	tbd	n.a.	n.a.			n.a.
Thioacetamide	62-55-5	tbd	tbd	n.a.	n.a.			n.a.
Thiourea	62-56-6	tbd	tbd	n.a.	n.a.			n.a.
Toluene diisocyanate (1,3-)	26471-62-5	tbd	tbd	n.a.	n.a.			n.a.
toluene diisocyanate (2,4-)	584-84-9	tbd	tbd	n.a.	n.a.			n.a.
Trimethyl phosphate	512-56-1	tbd	tbd	n.a.	n.a.			n.a.
Diethyl sulfate	64-67-5	tbd	tbd	n.a.	n.a.			n.a.
Dimethyl sulfate	77-78-1	tbd	tbd	n.a.	n.a.			n.a.
Benzophenone	119-61-9	tbd	tbd	n.a.	n.a.			n.a.
benzophenone, 4,4'-bis(dimethylamino)- [Michler's ketone]	90-94-8	tbd	tbd	n.a.	n.a.			n.a.
Cycloheximide	66-81-9	tbd	tbd	n.a.	n.a.	n.a.		

		Limits 检出限				Test Method 检测方法		
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Dichlorophene [2,2'-Methylenbis(4-chlorophenol)]	97-23-4	tbd	tbd	n.a.	n.a.			n.a.
Metam sodium	137-42-8	tbd	tbd	n.a.	n.a.			n.a.
Safrole [5-allyl-1,3-benzodioxole]	94-59-7	tbd	tbd	n.a.	n.a.			n.a.
Bisphenol A	80-05-7	tbd	tbd	n.a.	n.a.			n.a.
borate, zinc salt	1332-07-6	5	1	n.a.	n.a.	total digestion, ICP/MS, for total boron	total digestion, ICP/MS, for total boron	n.a.
Bis(chloromethyl)ether	542-88-1	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
2-chloro-6-fluoro-phenol	2040-90-6	tbd	tbd	n.a.	n.a.			n.a.
dimethyldithiocarbamate, Potassium salt	128-03-0	tbd	tbd	n.a.	n.a.			n.a.
dimethyldithiocarbamate, Sodium salt	128-04-1	tbd	tbd	n.a.	n.a.			n.a.
Disodium ethylenebis(N,N'-dithiocarbamate)	142-59-6	tbd	tbd	n.a.	n.a.			n.a.
1,2-Dimethylhydrazine	540-73-8	tbd	tbd	n.a.	n.a.			n.a.
1,1-Dimethylhydrazine (UDMH)	57-14-7	tbd	tbd	n.a.	n.a.			n.a.
dinitrobenzenes	99-65-0	tbd	tbd	n.a.	n.a.			n.a.
2-ethylhexyl diphenyl phosphate	1241-94-7	tbd	tbd	n.a.	n.a.			n.a.
Carbendazim (N-2-benzimidazolecarbamic acid methyl ester)	10605-21-7	tbd	tbd	n.a.	n.a.			n.a.
Carbon disulfide	75-15-0	tbd	tbd	n.a.	n.a.			n.a.
Ethylene thiourea	96-45-7	tbd	tbd	n.a.	n.a.	n.a.		
Hexachlorobutadiene	87-68-3	20	0,3	n.a.	n.a.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	By Headspace Gas Chromatography Mass Spectrometric (HS - GC/MS) Analysis.	n.a.
N-methylacetamide	79-16-3	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
perboric acid, sodium salt	10332-33-9; 10486-00-7; 11138-47-9; 12040-72- 1;13517-20- 9;15120-21- 5;37244-98-7;	5	1	n.a.	n.a.	total digestion, ICP/MS, for total boron	total digestion, ICP/MS, for total boron	n.a.

		Limits 检出限				Test Method 检测方法		
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Diazene-1,2-dicarboxamide [C,C'-azodi(formamide), ADCA]	123-77-3	tbd	tbd	n.a.	n.a.	under development	under development	n.a.
Triglycidylisocyanurate (TGIC)	2451-62-9	tbd	tbd	n.a.	n.a.			n.a.
N-(1,4-Dimethylpentyl)-N'-phenyl-benzen-1,4-diamin	3081-01-4	tbd	tbd	n.a.	n.a.			n.a.
Diethanolamine	111-42-2	tbd	tbd	n.a.	n.a.			n.a.
musk xylene	81-15-2	tbd	tbd	n.a.	n.a.			n.a.
2-(2H-Benzotriazol-2-yl)-4,6-bis(1,1-dimethylpropyl)fenol	25973-55-1	tbd	tbd	n.a.	n.a.			Extraction, GC/MS
2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)-phenol	3147-75-9	tbd	tbd	n.a.	n.a.			n.a.
2-(2'-Hydroxy-3,5'-di-tert.butylphenyl)-benzotriazole	3846-71-7	tbd	tbd	n.a.	n.a.			Extraction, GC/MS
2,4-Di-tert-butyl-6-(5-chlorobenzotriazole-2-yl)phenol (UV 327)	3864-99-1	tbd	tbd	n.a.	n.a.			Extraction, GC/MS
2-(2H-benzotriazole-2-yl)-4-(tert-butyl)-6(sec-butyl)phenol (UV 350)	36437-37-3	tbd	tbd	n.a.	n.a.			Extraction, GC/MS
3-(4-methylbenzylidene) camphor	36861-47-9	tbd	tbd	n.a.	n.a.	n.a.		

Definition	
tbd	to be determined
n.a.	not applicable
	Banned substances will not be used in the production of Kaufland articels
	Phase out of chemical is ongoing. Timeline for a ban has to be defined.