

PRODUCT RESTRICTED SUBSTANCES LIST (P-RSL)

Group	Substance	CAS-Nr.	Detection Limit	Test Method	MNG Actual Limits
1. Alkylphenols	Nonylphenoethoxilates NPEO ₍₂₋₁₈₎ Octylphenoethoxylates OPEO ₍₂₋₁₈₎	Various	0.2 mg/kg	Solvent Extraction, GC-MS (AP) & LC-MS (APEO) analysis.	Phase-out
	Nonylphenoethoxilates NPEO ₍₁₋₂₎ Octylphenoethoxylates OPEO ₍₁₋₂₎	Various			
	Nonylphenol (NP), Octylphenol (OP)	Various			
2. Phthalates	DEHP	117-81-7	0.3 mg/kg	CEN-ISO-TS 16181 TS 16181 EN 15777 EN 14372 Solvent Extraction & GC-MS analysis.	Banned
	DBP	84-74-2			
	BBP	85-68-7			
	DIBP	84-69-5			
	DNOP	117-84-0			
	DINP	28553-12-0 / 68515-48-0			
	DIDP	26761-40-0 / 68515-49-1			
3. B.&C. Flame retardants	DNHP	84-75-3	0.3 mg/kg	Solvent Extraction & GC-CE analysis.	Banned
	PBBs	Various			
	TRIS	126-72-7			
	TEPA	545-55-1			
	PBDEs	Various			
	HBCDD	25637-99-4			
4. Azo dyes	4 – AMINOBIIPHENYL	92-67-1	0.1 mg/kg	EN 14362-1:2012. ISO 17234-1:2010; ISO 17234-2:2011 → Leather. GB/T 17592- GB/T 23344 (4-aminozobenzene)	Banned
	BENZIDINE	92-87-5			
	4 – CHLORO – o – TOLUIDINE	95-69-2			
	2 – NAPHTHYLAMINE	91-59-8			
	o – AMINOAZOTOLUENE	97-56-3			
	2 – AMINO – 4 – NITROTOLUENE	99-55-8			
	p – CHLORANILINE	106-47-8			
	2-4 DIAMINOANISOLE	615-05-4			
	4,4' – DIAMINODIPHENYLMETHANE	101-77-9			
	3,3' – DICHLOROBENZIDINE	91-94-1			
	3,3' – DIMETHOXYBENZIDINE	119-90-4			
	3,3' – DIMETHYLBENZIDINE	119-93-7			
	3,3' – DIMETHYL – 4,4' DIAMINODIPHENYLMETHANE	838-88-0			
	p – CRESIDINE	120-71-8			
	4,4' – METHYLEN – BIS – (2-CHLOROANILINE)	101-14-4			
	4,4' - OXYDIANILINE	101-80-4			
	4,4' - THIODIANILINE	139-65-1			
	o – TOLUIDINE	95-53-4			
	2,4 – TOLUYLENDIAMINE	95-80-7			
	2,4,5- TRIMETHYLANILINE	137-17-7			
	2.4 – DIMETHYLANILINE (=2.4 – XYLIDINE)	95-68-1			
2.6 – DIMETHYLANILINE (=2.6 – XYLIDINE)	87-62-7				
2 – METHOXYANILINE	90-04-0				
4 – AMINOAZOBENZENE	60-09-3				
5. Organotin compounds	DBT	1002-53-5	0.01 mg/kg	Extraction / Derivation followed by GC-MS analysis	Banned
	TBT	688-73-3			
	TPhT	892-20-6			
	DOT	94410-05-6			
	MBT	1118-46-3			
	MOT	15231-44-4			
	DPHT	1461-25-2			
	TeBT	1461-25-2			
	TCyT	1461-25-2			
	TPT	1461-25-2			
6. PFCS	PFOA	335-67-1	0.001 mg/kg	Solvent Extraction, LC-MS analysis.	Phase-out
	PFNA	375-95-1	0.001 mg/kg		
	PFBS	375-73-5 / 59933-66-3	0.001 mg/kg		
	4:2 FTOH	2043-47-2	0.01 mg/kg	Extraction/ Derivation followed by GC-MS analysis	
	6:2 FTOH	647-42-7	0.01 mg/kg		
	8:2 FTOH	678-39-7	0.01 mg/kg		
	10:2 FTOH	865-86-1	0.01 mg/kg		
	POSF	307-35-7	0.001 mg/kg		
	FOSA	754-91-6	0.01 mg/kg		
	PFHxS	355-46-4	0.001 mg/kg		
	PFHxA	307-24-4	0.001 mg/kg		
	PFOS	1763-23-1	0.001 mg/kg	Solvent Extraction, LC-MS analysis.	
	N-Me-FOSA	31506-32-8	0.1		
	N-Et-FOSA	4151-50-2	0.1		
	N-Me-FOSE alcohol	24448-09-7	0.1		
N-Et-FOSE alcohol	1691-99-2	0.1			
PFBA	375-22-4	0.01			

	PFPeA	2706-90-3	0.01		
	PFHpA	375-85-9	0.01		
	PFDA	335-76-2	0.01		
	PFUnA	2058-94-8	0.01		
	PFDoA	307-55-1	0.01		
	PFTrA	72629-94-8	0.01		
	PFteA	376-06-7	0.01		
	PFHpS	375-92-8	0.01		
	PFDS	335-77-3	0.01		
	6:2 FTA	17527-29-6	0.1		
	8:2 FTA	27905-45-9	0.1		
	10:2 FTA	17741-60-5	0.1		
	PF-3,7-DMOA	172155-07-6	0.1		
	HPFHpA	1546-95-8	0.1		
	4HPFUnA	34598-33-9	0.01		
1H, 1H, 2H, 2H-PFOS	27619-97-2	0.01			
7. Chlorobenzenes	1,2-DICHLOROBENZENE	95-50-1	0.1 mg/kg	Extraction / Derivation followed by GC-MS analysis	Banned
	1,3-DICHLOROBENZENE	541-73-1			
	1,4- DICHLOROBENZENE	106-46-7			
	1,2,3-TRICHLOROBENZENE	87-61-6			
	1,2,4- TRICHLOROBENZENE	120-82-1			
	1.2.5.- TRICHLOROBENZENE	120-82-1			
	1,3,4- TRICHLOROBENZENE	120-82-1			
	1,3,5- TRICHLOROBENZENE	108-70-3			
	1,2,3,4-TETRACHLOROBENZENE	634-66-2			
	1,2,3,5- TETRACHLOROBENZENE	634-90-2			
	1,2,4,5- TETRACHLOROBENZENE	95-94-3			
	PENTACHLOROBENZENE	608-93-5			
	HEXACHLOROBENZENE	118-74-1			
	8. Chlorinated solvents	Dichloromethane			
Chloroform		67-66-3			
Tetrachloromethane		56-23-5			
Trichloroethylene		79-01-6			
Perchloroethylene		127-18-4			
Pentachloroethane		76-01-7			
1,1,2-Trichloroethane		79-00-5			
1,1-Dichloroethane		75-34-3			
1,2-Dichloroethane		107-06-2			
1,1,1-trichloroethane		71-55-6			
1,1,1,2-Tetrachloroethane		630-20-6			
1,1,2,2-Tetrachloroethane		79-34-5			
1,1-Dichloroethylene	75-35-4				
9. Chloro phenols	Tetrachlorophenol	25167-83-3	0.02 mg/kg	Extraction / Derivation followed by GC-MS analysis	Banned
	Pentachlorophenol	87-86-5			
	Orthophenilphenol	90-43-7			
	Trichlorophenols (TriCP)	various			
	Dichlorophenols (DiCP)	various			
Mono Chlorophenol	various				
10. Short chain chlorinated paraffins	Short chain chlorinated paraffins (C10 – C13)	85535-84-8	0.03 mg/kg	Solvent Extraction & GC-CE analysis.	Phase-out
11. Heavy metals	Total Cadmium(Cd)	7440-43-9	1 mg/kg	EN 1122-2001 / Acid Digestion followed by ICP analysis. (Total)	Phase-out
	Total Lead(Pb)	7439-92-1	1 mg/kg	EN 1122-2001 / Acid Digestion followed by ICP analysis. (Total)	Phase-out
	Total Mercury(Hg)	7439-97-6	0,006 mg/kg	ISO 105-E04 acid perspiration extraction & ICP analysis. (Extractable)	Banned
	Total Nickel(Ni)	7440-02-0	1 mg/kg	ISO 105-E04/ acid perspiration extraction & ICP analysis. (Extractable)	Phase-out
	Total Hexavalent Chromium(Cr-VI)	18540-29-9	1 mg/kg	DIN 53314-1996 UNE EN 17075:2008	Banned
	Total Arsenic (As)	7440-38-2	0,06 mg/kg	ISO 105-E04/ acid perspiration extraction & ICP analysis. (Extractable)	Phase-out
	Total Chromium(Cr)	7440-47-3	1 mg/kg	ISO 105-E04/ acid perspiration extraction & ICP analysis. (Extractable)	Phase-out
	Total Copper(Cu)	7440-50-8	1 mg/kg	ISO 105-E04/ acid perspiration extraction & ICP analysis. (Extractable)	Phase-out
	Total Zinc(Zn)	7440-66-6	4 mg/kg	ISO 105-E04/ acid perspiration extraction & ICP analysis. (Extractable)	Phase-out
	Total Manganese(Mn)	7439-96-5	1 mg/kg	ISO 105-E04/ acid perspiration extraction & ICP analysis. (Extractable)	Phase-out

12. Others	Cydine	:	1 mg/kg	ISO 105-E04 acid perspiration extraction & ICP analysis. (Extractable)	Phase-out
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