

bluesign® Restricted Substances List (RSL)

Version 10.0 | July 01, 2019

Product stewardship with respect to consumer safety aspects is difficult to manage in a complex supply chain. Supplier compliance declarations, which attest conformity with the brand Restricted Substance List (brand RSL) can be a good way to start. They should be further accompanied by a responsible testing program that monitors reliability of suppliers' declarations.

The bluesign® system substances list (BSSL) Consumer safety limits specifies consumer safety limits for chemical substances in articles. Due to the quantity and range of listed substances the BSSL shall not be used for confirmation declarations. Only a comprehensive input stream management and a network of committed bluesign® SYSTEM PARTNERS (including chemical suppliers), that together result in a positive list of preferred chemicals (bluesign® FINDER), can assure best compliance with the BSSL limits.

The RSL at hand is an extract of the BSSL and contains consumer safety limits and recommended testing methods for the most important and legally restricted substances in textile and leather articles and accessories. Brands and retailers can use this RSL as an orientation for the terms and conditions of purchase. Together with a testing matrix the document can also be utilized as a guide for appropriate testing of articles such as textiles. The RSL is revised at least annually in alignment with the BSSL.

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1 Definitions

1.1 Accessory

A component of a consumer product which is not classified as a textile fabric (e.g. button, label, zipper, etc.).

1.2 Article

An object which during production is given a special shape, surface or design, which determines its function to a greater degree than does its chemical composition (fibers, textile fabrics, buttons, zippers, etc.).

1.3 BSSL

bluesign® system substances list (BSSL) Consumer safety limits. A list that specifies consumer safety limits for chemical substances in articles. It also defines usage bans for chemical substances prohibited from the manufacturing of articles.

1.4 CAS

CAS registry numbers are unique numerical identifiers for chemical elements, compounds, polymers, biological sequences, mixtures and alloys. Chemical Abstracts Service (CAS), a division of the American Chemical Society, assigns these identifiers to every chemical that has been described in the literature. The intention is to make database searches more convenient, as chemicals often have many names. Almost all molecule databases today allow searching by CAS number.

1.5 Chemical substance

A chemical element and its compounds with constant composition and properties. It is defined by the CAS number.

1.6 Component

A part of an article that can be distinguished according to the material composition, the functionality and/or the color and is easily, mechanically separated from the other components.

1.7 Detection limit (DL)

The detection limit is the lowest quantity of a substance that can be distinguished from the absence of that substance following a prescribed analytical method.

1.8 Limit value

The maximum amount of chemical substances permitted in articles for the usage ranges A, B and C.

1.9 Mixture

A chemical product composed of two or more substances. It can be, for example, a colorant or an auxiliary.

1.10 Several

Several means, that the whole substance group is restricted although not all substances that are restricted are explicitly listed. The listed examples represent only those substances, which should be considered if substance group is intended for testing.

1.11 Traces

Although there is a ban for a chemical substance, residual amounts of this substance may be contained in a product from a non-intended source. In this case, a limit is defined to minimize these currently unavoidable traces.

1.12 Usage ban

For several chemical substances or substance groups a usage ban is defined. For these substances or substance groups intentional use in manufacturing of articles is prohibited. That means that chemical products (e.g. colorants or textile auxiliaries) used for manufacturing of articles must not intentionally contain these substances or substance groups.

The aim of a usage ban is to avoid release of harmful substances to the environment and to avoid occurrence in the manufactured article by applying the precautionary principle.

1.13 Usage range

Usage ranges classify consumer goods according to their consumer safety relevance.

Three usage ranges (A, B, C) are defined with A being the most stringent category concerning limit values/bans:

- Usage Range A: Next to skin use and baby articles (0 to 3 years)
- Usage Range B: Occasional skin contact
- Usage Range C: No skin contact

2 Scope

The document specifies restrictions (limits and bans) for chemical substances in

- articles made of textile and leather
- accessories for textile and leather articles

2.1 Application

The limits and restrictions have to be applied for each individual component of an intermediate or finished article. A component is each part of an article that can be distinguished according to the material composition and/or functionality and/or color and is easily mechanically separated from other components.

3 Testing methods

The testing methods listed in the last column of the table in chapter 4 are the recommended ones. The testing methods column consists of two entries: sample preparation, e.g. extraction, digestion, derivatisation and the test method, i.e. the actual measurement.

Depending on their availability international or national standards are also given for several substances and these methods may be applied. Other accredited methods can only be applied if it can be verified that equivalent results are obtained.

Details of the respective sample preparation methods can be found in the table below:

Sample preparation	Solvent(s)	Temperature (°C)	Time (min)	Other requirements
Extraction with KOH	Potassium hydroxide (1M)	90	12-15 hours	Derivatisation with Acetic anhydride
Extraction with MeOH	Methanol	70	60	Ultrasonic bath
Extraction with THF	Tetrahydrofuran	40	60	
Extraction with DCM	Dichloromethane	40	60	Ultrasonic bath
Extraction with MTBE	Methyl tert-butyl ether	60	60	Ultrasonic bath
Extraction with MeOH/Acetonitrile	Methanol/Acetonitrile (1:1)	70	30	Ultrasonic bath
Extraction with Hexane/Dichloroethane	Hexane/Dichloroethane (1:1)	70	60	
ASE - Accelerated Solvent Extraction	Acetone/Hexane (1:1)	100	-	
ASE – Accelerated Solvent Extraction	Ethyl acetate	40	-	
Soxhlet Extraction	Acetone/Hexane (1:1)	-	480	
Headspace	-	120	45	
DIN EN ISO 105-E04 (2013)	Acidic sweat solution	37	60	Textile to liquor ratio 1:50

For headspace measurements a purge & trap gas chromatography is recommended.

4 Restricted parameters and substances

	LIM	IT [mg/	/kg]	RECOMMENDED	
PARAMETER	A	В	С	SAMPLE PREPARATION // TEST METHOD	
	Non-le	ather pro	oducts:	ISO 2071 (2005)	
рН		4.0-7.5		ISO 3071 (2005)	
pri	Leat	her prod	ucts:	ISO 4045 (2008)	
		3.5-7.5		150 4043 (2006)	
Odor	shall b	npleasan pe emitte ne produc	d from	SNV 195 651	
Color Fastness Properties					
Color fastness to perspiration	disp coi at	iles dyed erse or n mplex dy least 3 - e goal is	netal es: · 4,	ISO 105-E04 (2013)	
Color fastness to saliva and perspiration	of 5-s descril	Fast ponds to step grey ped in IS .02 (1993	scale O 105-	§64 LFGB BVL B 82.10-1 in combination with DIN 53160-1 and -2 (2010)	

	LIMIT [mg/kg]			RECOMMENDED
SUBSTANCE	A	В	С	SAMPLE PREPARATION // TEST METHOD
Aldehydes				
Formaldehyde (CAS 50-00-0)	DL (15)	75	300	Textile: ISO 14184-1 (2011) Leather: ISO 17226-1 (2008) or ISO 17226-2 (2008)
Alkylphenols (APs) and Alkylphenolethoxylates (APEOs) listed in Appendix A	Usage ban 10 for each Alkylphenol 100 for each Alkylphenolethoxylate			Textile: ISO 18254-1 (2016) Leather: ISO 18218-1 (2015)
Amines	I			
Aniline (free) (CAS 62-53-3)	Usage ban // DL: 30			Extraction with MeOH // LC-MS
Arylamines (including corresponding salts; as substance for example in PU, and as decomposition product of azo colorants which, by reductive cleavage of one or more azo groups, may release one or more of the aromatic amines) listed in Appendix B	Usage ban DL: 20			Textile: EN ISO 14362-1 (2017) EN ISO 14362-3 (2017) (for azo colorants which may release 4-Aminoazobenzene) Leather: EN ISO 17234-1 (2015) EN ISO 17234-2 (2011) (for azo colorants which may release 4-Aminoazobenzene)
Asbestos Iisted in Appendix C	Usage ban not detected			REM/EDX BGI 505-46 or U.S. EPA/600/R-93/116
Chlorinated Benzenes and Toluenes listed in Appendix D	Usage ban DL: 1.0			DIN 54232 (2010)
Sum of all: 5.0				

	LIM	IT [mg,	/kg]	RECOMMENDED
SUBSTANCE	A	В	С	SAMPLE PREPARATION // TEST METHOD
Chlorinated Phenols listed in Appendix E	U	Isage ba	an	
Monochlorophenols (MonoCP), all isomers (CAS 25167-80-0)		n of all M and DiCPs		
Dichlorophenols (DiCP), all isomers (CAS 25167-81-1)	1.0	1.0	1.0	Extraction with KOH // § 64
Trichlorophenols (TriCP), all isomers (CAS 25167-82-2)				LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015)
Tetrachlorophenols (TeCP), salts and compounds (CAS 25167-83-3)	0.05 0.5 0.5		0.5	
Pentachlorophenol (PCP), salts, esters and compounds (CAS 87-86-5)				
Colorants	U	Isage ba	an	
Colorants with carcinogenic potential listed in Appendix F	DL: 20			
Colorants with allergenic potential listed in Appendix G	DL: 20			DIN 54231
Colorants banned for other reasons listed in Appendix H		DL: 20		

	LIM	IT [mg/	/kg]	RECOMMENDED
SUBSTANCE	A	В	С	SAMPLE PREPARATION // TEST METHOD
Dioxins and Furans listed in Appendix I	U	sage ba	ın	
Group 1		n of grou .0 [µg/kç	•	
Group 2	_	Sum of group 1 and 2: 5.0 [µg/kg]		
Group 3	Sum of group 1, 2 and 3: 100 [µg/kg] Sum of group 4: 1.0 [µg/kg]			EPA 8290A
Group 4				
Group 5	_	Sum of group 4 and 5: 5.0 [µg/kg]		
	U	Sage ba	ın	TOO 17001 1 (2016) 6
Flame retardants listed in Appendix J	Chlorinated paraffins in leather: Usage ban Traces: 100		:	ISO 17881-1 (2016) for brominated flame retardants ISO 17881-2 (2016) for phosphorus flame retardants
Fluorinated Greenhouse Gases listed in Appendix K	U	Sage ba	ın	Headspace GC-MS

CURCTANCE	LIMIT [mg/kg]			RECOMMENDED
SUBSTANCE	A	В	С	SAMPLE PREPARATION // TEST METHOD
Fluorinated Substances				
Perfluorooctane sulfonic acid / Perfluorooctane sulfonate (PFOS)* (CAS 1763-23-1)	Usage ban 1.0 [µg/m²]			CEN/TS 15968 (2014)
Perfluorocarboxylic acid and salts	U	Isage ba	n	
PFHxA (CAS 307-24-4)		0.05		CEN/TS 15968 (2014)
PFOA** (CAS 335-67-1)	Usage ban Traces: 25 [µg/kg]			
PFOA-related substances	Several			
Heptadecafluoro-1-iodooctane** (CAS 507-63-1)				CEN (TC 45050 (2014)
1H,1H,2H,2H- Perfluorodecyliodide** (CAS 2043-53-0)				CEN/TS 15968 (2014)
8:2 FTOH, Perfluorooctylethanol** (CAS 678-39-7)	Usage ban // Traces: 1000 [µg/kg] (for the sum of PFOA- related substances)		µg/kg] PFOA-	Extraction with MTBE // GC-MS
Perfluorooctylethene** (CAS 21652-58-4)				ASE with Ethyl acetate // GC-MS or LC-MS
Perfluorooctylethyl acrylate or methacrylate**				Extraction with MTBE // GC-MS

^{*}Ban on long-chain compounds in manufacturing based on long-chain electrofluorination chemistry (C6 and higher).

^{**}Phase-out of long-chain compounds in manufacturing based on long-chain telomer chemistry (C8 and higher) until end of 2014.

CURCTANCE	LIM	IIT [mg,	/kg]	RECOMMENDED
SUBSTANCE	A	В	С	TEST METHOD
Glycols				
Bis(2-methoxyethyl)-ether (CAS 111-96-6)				
2-Ethoxyethanol (CAS 110-80-5)	Usage ban DL:5.0			
2-Ethoxyethyl acetate (CAS 111-15-9)				Textile:
Ethylene glycol dimethyl ether (CAS 110-71-4)				Extraction with MeOH // GC-MS
2-Methoxyethanol (CAS 109-86-4)				Plastic: 2-Step extraction with THF and MeOH // GC-MS
2-Methoxyethylacetate (CAS 110-49-6)				
2-Methoxy-1-propanol (CAS 1589-47-5)				
2-Methoxypropylacetate (CAS 70657-70-4)				
Triethylene glycol dimethyl ether (CAS 112-49-2)				
Halogenated Biphenyls,	ι	Jsage ba	n	
halogenated Terphenyls, halogenated Naphthalenes		DL: 1.0		ISO 17881-1 (2016)
listed in Appendix L	DL	: 5.0 (PB	Bs)	
Halogenated Diarylalkanes listed in Appendix M	Usage ban DL: 1.0			Extraction following IEC 62321-6 (2015) // GC-MS
Isocyanates listed in Appendix N	Free content Sum of all: 1.0			EN 13130-8 (2004)

HEAVY METALS (EXTRACTABLE CONTENT)					
LIMIT [mg/kg				RECOMMENDED	
METAL	A	В	С	SAMPLE PREPARATION // TEST METHOD	
	Text	iles and lea	ather	Textiles: DIN EN 16711-2 (2016) (acidic sweat solution)	
Antimony (Sb)	5	10	10	Leather: ISO 17072-1 (2011) (acidic sweat solution)	
(CAS 7440-36-0)		arts and no er than tex leather		EN 71-3 (2013) (acidic solution simulating gastric juices) // ISO 17294-2 (2016) or DIN EN	
	60			ISO 11885 (2009)	
Arsenic (As)	Usage ban Traces:		Textiles and others: DIN EN 16711-2 (2016) (acidic sweat solution)		
(CAS 7440-38-2)	0.2			Leather: ISO 17072-1 (2011) (acidic sweat solution)	
	Non-metal parts (textiles, leather and others) Traces: 0.1		1		
Cadmium (Cd) (CAS 7440-43-9)				Textiles and others: DIN EN 16711-2 (2016) (acidic sweat solution) Leather: ISO 17072-1 (2011) (acidic sweat solution)	

	LIMIT [mg/kg]			RECOMMENDED		
METAL	A	В	С	SAMPLE PREPARATION // TEST METHOD		
	Textiles					
		0.5		DIN 5N 46744 2 (2046) (:::::-		
	chromiu	extiles dyed m containi omplex dye	ng metal	DIN EN 16711-2 (2016) (acidic sweat solution)		
	1.0	2.0	2.0			
Chromium (Cr) (CAS 7440-47-3)		tal parts ot les and lea 60				
	a metal	cts are cover l layer, inclum layer, constantly condition	uding a coating	EN 71-3 (2013) (acidic solution simulating gastric juices) // ISO 17294-2 (2016) or DIN EN ISO 11885 (2009)		
	n	Leather: o regulatio	n	-		
		Usage baı	1			
		arts and no thers than		EN 700 17075 1 2 (2017)		
Chromium (VI) (CAS 18540-29-9)		DL: 0.5		EN ISO 17075-1 or -2 (2017)		
		Leather:		DIN EN ISO 4044 (2017) // EN		
		DL: 3.0		ISO 17075-1 (2017-) or EN ISO 17075-2 (2017-05)		
	Texti	les and lea	ther:			
	1.0					
Cobalt (Co) (CAS 7440-48-4)	with cob	es and lea alt contain omplex dye	ng metal	Textiles and others: DIN EN 16711-2 (2016) (acidic sweat		
	1.0	4.0	4.0	solution) Leather: ISO 17072-1 (2011)		
	parts o	arts and no thers than and leather	textiles	(acidic sweat solution)		
	1.0	4.0	4.0			

	LIMIT [mg/kg]			RECOMMENDED	
METAL	A	А В С		SAMPLE PREPARATION // TEST METHOD	
	(includi	xtiles and ling metal ced materia	omplex	Textiles and others: DIN EN 16711-2 (2016) (acidic sweat solution)	
Copper (Cu) (CAS 7440-50-8)	25	50	50	Leather: ISO 17072-1 (2011) (acidic sweat solution)	
(CA3 7440-30-8)		al parts otl les and lea		-	
	N	lo regulatio	n		
	ı	Usage bar	1		
Lead (Pb) (CAS 7439-92-1)	Textiles, plastics and leather Traces:		d leather	Textiles and others: DIN EN 16711-2 (2016) (acidic sweat solution) Leather: ISO 17072-1 (2011)	
	0.2	1.0	1.0	(acidic sweat solution)	
	ı	Usage bar	1		
	Noi			Textiles and others: DIN EN 16711-2 (2016) (acidic sweat	
Mercury (Hg) (CAS 7439-97-6)		Traces: 0.02		solution) Leather: ISO 17072-1 (2011) (acidic sweat solution)	
	1	Metal parts	:	EN 71-3 (2013) (acidic solution	
		Traces: 60		simulating gastric juices) // ISO 12846 (2012)	
	Texti	les and lea	ther:		
		1.0		Textiles and others: DIN EN 16711-2 (2016) (acidic sweat	
	For textiles and leather dyed with nickel containing metal complex dyes:			solution) Leather: ISO 17072-1 (2011) (acidic sweat solution)	
Nickel (Ni) (CAS 7440-02-0)	1.0 4.0 4.0				
(CAS 7440 02 0)	parts o	arts and no thers than and leather	textiles	Release	
	Usage ban for A and B 0.5 [µg/cm²/week]			EN 12472 (2005)+A1(2009) // EN 1811 (2011)+A1(2015)	

HEAVY METALS (TOTAL CONTENT)							
METAL	LII	MIT [mg/	kg]	RECOMMENDED			
METAL	Α	В	С	SAMPLE PREPARATION // TEST METHOD			
		Usage ba	1				
		etal parts (her and otl		Textiles and others: DIN EN 16711-1 (2016) (total content) Leather: ISO 17072-2 (2011)			
Total Cadmium (Cd)	Total Cadmium (Cd) Traces: 40			(total content)			
		Metal parts	5	DIN EN 16711-1 (2016) (total content)			
		Traces: 40)				
		Usage ba	า				
	Textiles,	plastics ar	nd leather	Textiles and others: DIN EN 16711-1 (2016) (total content)			
Total Lead (Pb)		Traces: 40)	Leather: ISO 17072-2 (2011) (total content)			
		Metal parts	5	DIN EN 16711-1 (2016) (total content)			
		Traces: 90)				

SUBSTANCE	LIM	IIT [mg/	'kg]	RECOMMENDED SAMPLE PREPARATION //	
SOBSTANCE	A	В	С	TEST METHOD	
Monomers					
Acrylamide (CAS 79-06-1)	ι	Jsage ba	n	Textile: Extraction with MeOH // LC-MS Plastic: 2-Step extraction with THF and MeOH // LC-MS	
Other Chemical Substances					
Acetophenone (CAS 98-86-2)		20		Extraction with MeOH // GC-MS	
Bisphenol A (CAS 80-05-7)	_	ban for finishing DL: 1.0 cessories:	J	Extraction with MeOH // ISO 18857-2 (2009)	
Cresol, all isomers (CAS 1319-77-3)					
m-Cresol (CAS 108-39-4)	ι	Jsage ba	n	Extraction with KOH // § 64 LFGB B 82.02-8 (2001) or DIN EN ISO 17070 (2015)	
o-Cresol (CAS 95-48-7)		DL:10			
p-Cresol (CAS 106-44-5)					
Dimethylfumarate (CAS 624-49-7)	ι	Jsage ba DL: 0.1	n	ISO/TS 16186 (2012) // GC-MS	
Formamide (CAS 75-12-7)	l	Jsage ba	n	Extraction with MeOH* // GC-MS	
, ,	50	50	100	*Cut the samples into small pieces (2x2mm)	
Isoquinoline (CAS 119-65-3)		oan // Tra		Extraction with MeOH or THF // LC-MS/MS or LC-DAD	
	F	or textile	s:	Extraction with KOH // § 64 LFGB B 82.02-8 (2001) or	
o-Phenylphenol (CAS 90-43-7)	50	50	50	DIN EN ISO 17070 (2015)	
,	For leather:			ISO 13365 (2011)	
	50	100	200		
Phenol (CAS 108-95-2)	10	50	100	Extraction with MeOH // GC-MS or LC-MS	

SUBSTANCE	LIMIT [mg/kg]		'kg]	RECOMMENDED SAMPLE PREPARATION //	
SUBSTANCE	Α	В	С	TEST METHOD	
2-Phenyl-2-propanol (CAS 617-94-7)	1.0	10	10	Extraction with MeOH // GC-MS	
Quinoline (CAS 91-22-5)		50		Extraction with Methanol or THF // LC-MS/MS or LC-DAD	
Ozone Depleting Substances listed in Appendix O	Usage ban for direct use in manufacturing of articles DL: 0.1		e in	Headspace GC-MS	
Pesticides listed in Appendix P	Usage ban 0.5 applies to sum of pesticides		to	ASE or Soxhlet Extraction with Acetone/Hexane // GC-MS or LC-MC	
Plasticizers Iisted in Appendix Q	Usage ban 50		n	ISO 14389 (2014)	
Polyaromatic Hydrocarbons (PAHs) Listed in Appendix R	Usage ban Sum of all PAHs: 10 Benzo(a)pyrene: 0.2 PAHs marked with (*):		AHs: ene:	EPA 8310 - EPA 8270D - EPA 8275A - AfPS GS 2014:01	
	0.5	1.0	1.0		
Polymers					
Polyvinyl chloride (PVC) (CAS 9002-86-2)	Usage ban for A and B Not detected			Beilstein test* // FTIR *FTIR measurement only if result of Beilstein test was positive	

SUBSTANCE LIMIT [m		IIT [mg/	kg]	RECOMMENDED SAMPLE PREPARATION //	
SUBSTANCE	A B C		С	TEST METHOD	
Solvents					
Benzene (CAS 71-43-2)	U	Isage ba i DL: 5.0	1	VDA 278 (2011)	
1,2-Dichloroethane (CAS 107-06-2)	L	Jsage ba DL: 1.0	n 	Headspace GC-MS	
Dichloromethane (CAS 75-09-2)	ι	DL: 5.0	1	Headspace GC-MS	
N-Ethyl-2-pyrrolidone (NEP) (CAS 2687-91-4)	ι	Isage bai Traces:	n 	CEN ISO/TS 16189 (2013)	
(CA3 2007-31-4)	10	10	100		
N-Methylpyrrolidone (NMP) (CAS 872-50-4)		Isage bai Traces:	n 	. CEN ISO/TS 16189 (2013)	
(CAS 672-30-4)	10	10	100		
N,N-Dimethylacetamide (DMAc)	Usage ban with exception of fiber manufacturing DL: 5.0		fiber ing	CEN ISO/TS 16189 (2013)	
(CAS 127-19-5)	Limits for fiber manufacturing (residual fiber solvent):		esidual		
	10	50	50		
N,N-Dimethylformamide (DMF)	Usage ban with exception of solvent coating, laminating, fiber manufacturing DL: 5.0		olvent ating,		
(CAS 68-12-2)	For solvent coating, laminating,fiber manufacturing:		ber	- CEN ISO/TS 16189 (2013)	
	50				
Tetrachloroethylene (Perchloroethylene) (CAS 127-18-4)	Usage ban DL: 1.0		1	Headspace GC-MS	
Toluene (CAS 108-88-3)	10	50	50	Headspace GC-MS	
Trichloroethylene (CAS 79-01-6)	Usage ban DL: 5.0		1	Headspace GC-MS	

SUBSTANCE	LIMIT [mg/kg]			RECOMMENDED SAMPLE PREPARATION //
SUBSTANCE	A B C		C	TEST METHOD
Xylene, all isomers (CAS 1330-20-7)	Usage ban in textile finishing DL:1.0			
m-Xylene (CAS 108-38-3)	Non toutile esticles		ticloc	Headspace GC-MS
o-Xylene (CAS 95-47-6)	Non-textile articles Traces: 1.0			
p-Xylene (CAS 106-42-3)	1.0			

SUBSTANCE	LIMIT [mg/kg]		kg]	RECOMMENDED SAMPLE PREPARATION //
	Α	В	С	TEST METHOD
Tin organic compounds	Usage ban		n	
Monomethyltin compounds (MMT)		2.0		
Monobutyltin compounds (MBT)		1.0		
Monophenyltin compounds (MPhT)		1.0		
Monooctyltin compounds (MOT)		2.0		
Dimethyltin compounds (DMT)		DL:0.5		
Dipropyltin compounds (DPT)		1.0		
Dibutyltin compounds (DBT)		1.0		
Diphenyltin compounds (DPhT)	2.0			
Dioctyltin compounds (DOT)	1.0			ISO/TS 16179 (2012)
Trimethyltin compounds (TMT)	DL:0.5			
Tripropyltin compounds (TPT)	DL:0.5			
Tributyltin compounds (TBT)		DL:0.5		
Triphenyltin compounds (TPhT)		DL:0.5		
Trioctyltin compounds (TOT)		DL:0.5		
Tetraethyltin compounds (TeET)	1.0			
Tetrabutyltin compounds (TTBT)	DL:0.5			
Tetraoctyltin compounds (TTOT)	DL:0.5			
Tricyclohexyltin compounds (TCyHT)		DL:0.5		

CURCTANCE	LIMIT [mg/kg]		kg]	RECOMMENDED
SUBSTANCE	Α	В	С	SAMPLE PREPARATION // TEST METHOD
UV stabilizers	Usage ban		n	
UV-320 2-benzotriazol-2-yl-4,6-di-tert- butylphenol (CAS 3846-71-7)				
UV-327 2,4-di-tert-butyl-6-(5- chlorobenzotriazol-2-yl)phenol (CAS 3864-99-1)	Traces: 1000			Extraction with Hexane/Dichloroethane //
UV-328 2-(2H-benzotriazol-2-yl)-4,6- bis(1,1-dimethylpropyl)phenol (CAS 25973-55-1)				GC-MS
UV-350 2-(2H-Benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (CAS 36437-37-3)				

Appendices

Appendix A: Alkylphenols and Alkylphenolethoxylates	CAS - No.
Nonylphenol (NP)	several
Octylphenol (OP)	several
Nonylphenolethoxylate (EO) ₃₋₂₀	several
Octylphenolethoxylate (EO) ₃₋₂₀	several

Appendix B: Arylamines (and corresponding salts)	CAS – No.
p-Aminoazobenzene	60-09-3
o-Aminoazotoluene	97-56-3
4-Aminobiphenyl	92-67-1
2-Amino-4-nitrotoluene	99-55-8
2-Anisidine	90-04-0
Benzidine	92-87-5
4-Chloroaniline	106-47-8
4-Chlor-2-toluidine	95-69-2
4-Chloro-o-toluidinium chloride	3165-93-3
p-Cresidine	120-71-8
2,4-Diaminoanisole	615-05-4
4,4'-Diaminodiphenylmethane	101-77-9
2,4-Diaminotoluene	95-80-7
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
4-Methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7
4,4'-Methylenebis-(2-chloraniline)	101-14-4
2-Naphthylamine	91-59-8
2-Naphthylammoniumacetate	553-00-4
4,4'-Oxydianiline	101-80-4
4,4'-Thiodianiline	139-65-1
o-Toluidine	95-53-4
2,4,5-Trimethylaniline	137-17-7
2,4,5-Trimethylaniline hydrochloride	21436-97-5
2,4-Xylidine	95-68-1
2,6-Xylidine	87-62-7

Appendix C: Asbestos	CAS – No.
Actinolite	77536-66-4
Amosite	12172-73-5
Anthophyllite	77536-67-5
Chrysotile	12001-29-5
Crocidolite	12001-28-4
Tremolite	77536-68-6

ppendix D: Chlorinated Benzenes and Toluenes	CAS – No.
Monochlorobenzene	108-90-7
Dichlorobenzenes, all isomers	Several
1,2-Dichlorobenzene	95-50-1
1,3-Dichlorobenzene	541-73-1
1,4-Dichlorobenzene	106-46-7
Trichlorobenzenes, all isomers	Several
1,2,3-Trichlorobenzene	87-61-6
1,2,4-Trichlorobenzene	120-82-1
1,3,5-Trichlorobenzene	108-70-3
Tetrachlorobenzenes, all isomers	Several
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
Monochlorotoluenes, all isomers	Several
2-Chlorotoluene	95-49-8
3-Chlorotoluene	108-41-8
4-Chlorotoluene	106-43-4
a-Chlorotoluene	100-44-7
Dichlorotoluenes, all isomers	Several
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
Trichlorotoluenes, all isomers	Several
2,3,4-Trichlorotoluene	7359-72-0
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
a,a,a-Trichlorotoluene	98-07-7
Tetrachlorotoluenes, all isomers	Several
2,3,4,5-Tetrachlorotoluene	76057-12-0
2,3,5,6-Tetrachlorotoluene	29733-70-8
2,3,4,6-Tetrachlorotoluene	875-40-1
a,a,a,4-Tetrachlorotoluene	5216-25-1
Pentachlorotoluene	877-11-2
Chlorotoluene, unspecific mixture	25168-05-2

Appendix E: Chlorinated Phenols	CAS – No.
Monochlorophenols	25167-80-0
2-Chlorophenol	95-57-8
3-Chlorophenol	108-43-0
4-Chlorophenol	106-48-9
Dichlorophenols	25167-81-1
2,3-Dichlorophenol	576-24-9

Appendix E: Chlorinated Phenols (continued)	CAS – No.
2,4-Dichlorophenol	120-83-2
2,5-Dichlorophenol	583-78-8
2,6-Dichlorophenol	87-65-0
3,4-Dichlorophenol	95-77-2
3,5-Dichlorophenol	591-35-5
Trichlorophenols	25167-82-2
2,3,4-Trichlorophenol	15950-66-0
2,3,5-Trichlorophenol	933-78-8
2,3,6-Trichlorophenol	933-75-5
2,4,5-Trichlorophenol	95-95-4
2,4,6-Trichlorophenol	88-06-2
3,4,5-Trichlorophenol	609-19-8
Tetrachlorophenols	25167-83-3
2,3,4,5-Tetrachlorophenol	4901-51-3
2,3,4,6-Tetrachlorophenol	58-90-2
2,3,5,6-Tetrachlorophenol	935-95-5
Pentachlorophenols	87-86-5

Appendix F: Colorants with carcinogenic potential	CAS - No.
Acid Red 26	3761-53-3
Acid Red 114	6459-94-5
Basic Green 4	Several
Malachit green	10309-95-2
Malachit green chloride	569-64-2
Malachit green oxalate	2437-29-8
Basic Red 9	569-61-9
Basic Violet 14	632-99-5
Direct Black 38	1937-37-7
Direct Blue 6	2602-46-2
Direct Blue 15	2429-74-5
Direct Brown 95	16071-86-6
Direct Red 28	573-58-0
Disperse Blue 1	2475-45-8
Disperse Orange 11	82-28-0
Disperse Yellow 3	2832-40-8
Pigment Black 25	68186-89-0
Pigment Yellow 34	1344-37-2
Pigment Yellow 157	68610-24-2
Pigment Red 104	12656-85-8

Appendix G: Colorants with allergenic potential	CAS – No.
Disperse Blue 3	2475-46-9
Disperse Blue 7	3179-90-6
Disperse Blue 26	3860-63-7
Disperse Blue 35	12222-75-2
Disperse blue 33	56524-77-7
Disperse Blue 102	12222-97-8
Disperse Blue 106	12223-01-7

Appendix G: Colorants with allergenic potential (continued)	CAS - No.
Disperse Blue 124	61951-51-7
Disperse Brown 1	23355-64-8
Disperse Orange 1	2581-69-3
Disperse Orange 3	730-40-5
	12223-33-5
Disperse Orange 37/59/76	13301-61-6
	51811-42-8
Disperse Red 1	2872-52-8
Disperse Red 11	2872-48-2
Disperse Red 17	3179-89-3
Disperse Yellow 1	119-15-3
Disperse Yellow 9	6373-73-5
Disperse Yellow 39	12236-29-2
Disperse Yellow 49	54824-37-2

Appendix H: Colorants banned for other reasons	CAS – No.
Basic Blue 26	2580-56-5
	548-62-9
Basic Violet 3	603-48-5
	14426-25-6
Direct Yellow 1	6472-91-9
Disperse Yellow 23	6250-23-3
Disperse Orange 149	85136-74-9
	EC-Number:
Navy Blue	405-665-4
A mixture of: disodium (6-(4-anisidino)-3- sulfonato-2-(3,5-dinitro-2-oxidophenylazo)-	Component 1:
1- naphtholato)(1-(5-chloro-2-oxidophenylazo)-2- naphtholato)chromate(1-),trisodium	118685-33-9
bis(6-(4-anisidino)-3-sulfonato-2-(3,5- dinitro-2-oxidophenylazo)-1- naphtholato)chromate(1-) Component 1: CAS-No: 118685-33-9	Component 2:
C39H23ClCrN7O12S.2Na ¦ Component 2: C46H30CrN10O20S2.3Na	Not allocated

Appendix I: Dioxins and Furans	CAS – No.
Group 1:	Several
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4
2,3,7,8-Tetrachlorodibenzofuran	51207-31-9
2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4
Group 2:	Several
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3
1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6
1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9
1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9
1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9
2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5
Group 3:	Several
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9

Appendix I: Dioxins and Furans (continued)	CAS - No.
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9
1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0
Group 4:	Several
2,3,7,8-Tetrabromodibenzo-p-dioxin	50585-41-6
1,2,3,7,8-Pentabromodibenzo-p-dioxin	109333-34-8
2,3,7,8-Tetrabromodibenzofuran	67733-57-7
2,3,4,7,8-Pentabromodibenzofuran	131166-92-2
Group 5:	Several
1,2,3,4,7,8-Hexabromodibenzo-p-dioxin	110999-44-5
1,2,3,6,7,8-Hexabromodibenzo-p-dioxin	110999-45-6
1,2,3,7,8,9-Hexabromodibenzo-p-dioxin	110999-46-7
1,2,3,7,8-Pentabromodibenzofuran	107555-93-1

Appendix J: Flame retardants	CAS - No.
2,2-Bis(bromomethyl)-1,3-propanediol	3296-90-0
Bis(2,3-dibromopropyl)phosphate	5412-25-9
Chlorinated paraffins, all chain lengths	Several
Paraffin wax, chlorinated	63449-39-8
Paraffin, C ₁₀ -C ₁₃ , chlorinated (SCCP)	85535-84-8
Paraffin, C ₁₄ -C ₁₇ , chlorinated (MCCP)	85535-85-9
Paraffin, C ₁₈ -C ₂₈ , chlorinated (LCCP)	85535-86-0
	25637-99-4
	3194-55-6
Hexabromocyclododecan	134237-50-6
	134237-51-7
	134237-52-8
Polybrominated diphenyl ethers (PBDE)	Several
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9
Pentabromodiphenyl ether (PentaBDE)	32534-81-9
Hexabromodiphenyl ether (HexaBDE)	36483-60-0
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3
Octabromodiphenyl ether (OctaBDE)	32536-52-0
Nonabromodiphenyl ether (NonaBDE)	63936-56-1
Decabromodiphenyl ether (DecaBDE)	1163-19-5
Tetrabromobisphenol A	79-94-7
Tetrabromobisphenol A bis(2,3-dibromopropylether)	21850-44-2
Tri(aziridin-1-yl)phosphine oxide (TEPA)	545-55-1
Triethylenephosphoramide	343-33-1
Trimethyl phosphate	512-56-1
Tri-o-cresyl phosphate	78-30-8
Tris(2-chloroethyl) phosphate (TCEP)	115-96-8
Tris-(2-chloro-1-methylethyl)phosphate (TCPP)	13674-84-5
Tris-[2-chloro-1-(chloromethyl)ethyl]phosphate (TDCP)	13674-87-8
Tris(2,3-dibromopropyl)phosphate (TRIS)	126-72-7
Trixylyl phosphate	25155-23-1

Appendix K: Fluorinated Greenhouse Gases	CAS - No.
Sulphur hexafluoride – SF6	2551-62-4
Perfluoromethane	75-73-0
Perfluoroethane	76-16-4
Perfluoropropane	76-19-7
Perfluorobutane	355-25-9
Perfluoropentane	678-26-2
Perfluorohexane	355-42-0
Perfluorocyclobutane	115-25-3
HFC-23	75-46-7
HFC-32	75-10-5
HFC-41	593-53-3
HFC-43-10mee	138495-42-8
HFC-125	354-33-6
HFC-134	359-35-3
HFC-134a	811-97-2
HFC-152a	75-37-6
HFC-143	430-66-0
HFC-143a	420-46-2
HFC-227ea	431-89-0
HFC-236cb	677-56-5
HFC-236ea	431-63-0
HFC-236fa	690-39-1
HFC-245ca	679-86-7
HFC-245fa	460-73-1
HFC-365mfc	406-58-6

Appendix L: Halogenated Biphenyls, Terphenyls, Napthalenes	CAS – No.
Polybrominated biphenyls (PBBs)	Several
Polychlorinated biphenyls (PCBs)	Several
Polychlorinated terphenyls (PCTs)	Several
Polybrominated terphenyls (PBTs)	Several
Polychlorinated naphthalenes (PCNs)	Several
Polybrominated naphthalenes (PBNs)	Several

Appendix M: Halogenated Diarylalkanes	CAS – No.
Monomethyl-dibromo-diphenyl methane	99688-47-8
Monomethyl-dichloro-diphenyl methane	81161-70-8
Monomethyl-tetrachloro-diphenyl methane	76253-60-6

Appendix N: Isocyanates	CAS – No.
1,3-bis(isocyanatomethyl)benzene (HDI)	3634-83-1
Diphenylmethane-4,4-diisocyanate (MDI)	101-68-8
Hexamethylene diisocyanate (HMDI)	822-06-0
Isophorone diisocyanate (IPDI)	4098-71-9
Tetramethylxylene diisocyanate (TMXDI)	2778-42-9
Toluene-2,4-diisocyanate (2,4-TDI)	584-84-9
Toluene-2,6-diisocyanate (2,6-TDI)	91-08-7

ppendix O: Ozone Depleting Substances	CAS – No.
one-depleting substances (CFC's) class I	Several
Trichlorofluoromethane CFC-11	75-69-4
Dichlorofluoromethane CFC-12	75-71-8
1,1,2-Trichloro-1,2,2-trifluoroethane CFC-113	76-13-1
1,1,1-Trichloro-2,2,2-trifluoroethane CFC-113a	354-58-5
1,2-Dichloro-1,1,2,2-tetrafluoroethane CFC-114	76-14-2
1,1-Dichloro-1,2,2,2-tetrafluoroethane CFC-114a	374-07-2
Monochloropentafluoroethane CFC-115	76-15-3
Bromochlorodifluoromethane Halon-1211	353-59-3
Bromotrifluoromethane Halon-1301	75-63-8
Dibromotetrafluoroethane Halon-2402	124-73-2
Chlorotrifluoromethane CFC-13	75-72-9
Pentachlorofluoroethane CFC-111	354-56-3
1,1,2,2-Tetrachloro-1,2-difluoroethane CFC-112	76-12-0
1,1,1,2-Tetrachlorodifluoroethane CFC-112a	76-11-9
Heptachlorofluoropropane CFC-211	422-78-6
Hexachlorodifluoropropane CFC-212	3182-26-1
Pentachlorotrifluoropropane CFC-213	2354-06-5
Tetrachlorotetrafluoropropane CFC-214	29255-31-0
1,1,3-Trichloropentafluoropropane CFC-215	76-17-5
1,2,3-Trichloropentafluoropropane CFC-215	1652-81-9
1,1,1-Trichloropentafluoropropane CFC-215	4259-43-2
1,2,2-Trichloropentafluoropropane CFC-215	1599-41-3
Dichlorohexafluoropropane CFC-216	661-97-2
Monochloroheptafluoropropane CFC-217	422-86-6
Carbon tetrachloride CCl4	56-23-5
1,1,1-Trichloroethane (Methylchloroform)	71-55-6
Methylbromide (CH3Br)	74-83-9
CHFBr2	1868-53-7
CHF2Br	1511-62-2
CH2FBr	373-52-4
C2HFBr4	353-93-5
C2HF2Br3	353-97-9
C2HF3Br2	354-04-1
C2HF4Br	354-07-4
C2H2FBr3	172912-75-
C2H2F2Br2	75-82-1
C2H2F3Br	421-06-7
C2H3FBr2	358-97-4

Ozone-depleting substances (CFC's) class I (continued)	Several
C2H3F2Br	359-07-9
C2H4FBr	762-49-2
C3HFBr6	-
C3HF2Br5	-
C3HF3Br4	-
C3HF4Br3	666-48-8
C3HF5Br2	431-78-7
C3HF6Br	2252-79-1
C3H2FBr5	-
C3H2F2Br4	148875-98-3
C3H2F3Br3	431-48-1
C3H2F4Br2	460-86-6
C3H2F5Br	460-88-8
C3H3FBr4	-
C3H3F2Br3	666-25-1
C3H3F3Br2	460-60-6
C3H3F4Br	460-67-3
C3H4FBr3	75372-14-4
C3H4F2Br2	51584-25-9
C3H4F3Br	460-32-2
C3H5FBr2	453-00-9
C3H5F2Br	461-49-4
C3H6FBr	1871-72-3
Chlorobromomethane CH2BrCl	74-97-5
Ozone-depleting substances (CFC's) class II	Several
ozone achiering substances (ci c s) class II	Severai
Dichlorofluoromethane HCFC-21	75-43-4
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Dichlorofluoromethane HCFC-21	75-43-4
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22	75-43-4 75-45-6
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31	75-43-4 75-45-6 593-70-4
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121	75-43-4 75-45-6 593-70-4 354-14-3
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133a	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133 HCFC-141	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-22 Monochlorofluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133 HCFC-141 Dichlorofluoroethane HCFC-141b	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133 HCFC-141 Dichlorofluoroethane HCFC-141b HCFC-142	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7 - 1717-00-6
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133 HCFC-141 Dichlorofluoroethane HCFC-141b HCFC-142 Monochlorodifluoroethane HCFC-142b	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7 - 1717-00-6
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133 HCFC-141 Dichlorofluoroethane HCFC-141b HCFC-142 Monochlorodifluoroethane HCFC-142b HCFC-151	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7 - 1717-00-6 - 75-68-3
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133 HCFC-141 Dichlorofluoroethane HCFC-141b HCFC-142 Monochlorodifluoroethane HCFC-142b HCFC-151 Hexachlorofluoropropane HCFC-221	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7 - 1717-00-6 - 75-68-3 - 422-26-4
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133a HCFC-141 Dichlorofluoroethane HCFC-141b HCFC-142 Monochlorodifluoroethane HCFC-142b HCFC-151 Hexachlorofluoropropane HCFC-221 Pentachlorodifluoropropane HCFC-222	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7 - 1717-00-6 - 75-68-3 - 422-26-4 422-49-1
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Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133 HCFC-141 Dichlorofluoroethane HCFC-141b HCFC-142 Monochlorodifluoroethane HCFC-142b HCFC-151 Hexachlorofluoropropane HCFC-221 Pentachlorodifluoropropane HCFC-223 Trichlorotetrafluoropropane HCFC-224	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7 - 1717-00-6 - 75-68-3 - 422-26-4 422-49-1 422-52-6
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133a HCFC-141 Dichlorofluoroethane HCFC-141b HCFC-142 Monochlorodifluoroethane HCFC-142b HCFC-151 Hexachlorofluoropropane HCFC-221 Pentachlorodifluoropropane HCFC-223 Trichlorotetrafluoropropane HCFC-224 HCFC-225	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7 - 1717-00-6 - 75-68-3 - 422-26-4 422-49-1 422-52-6 422-54-8 -
Dichlorofluoromethane HCFC-21 Monochlorodifluoromethane HCFC-31 Tetrachlorofluoroethane HCFC-121 Trichlorodifluoroethane HCFC-122 Dichlorotrifluoroethane HCFC-123 Monochlorotetrafluoroethane HCFC-124 Trichlorofluoroethane HCFC-131 Dichlorodifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-132 Monochlorotrifluoroethane HCFC-133a HCFC-141 Dichlorofluoroethane HCFC-141b HCFC-142 Monochlorodifluoroethane HCFC-142b HCFC-151 Hexachlorofluoropropane HCFC-221 Pentachlorodifluoropropane HCFC-223 Trichlorotetrafluoropropane HCFC-224 HCFC-225 Dichloropentafluoropropane HCFC-225ca	75-43-4 75-45-6 593-70-4 354-14-3 354-21-2 306-83-2 2837-89-0 359-28-4 1649-08-7 75-88-7 - 1717-00-6 - 75-68-3 - 422-26-4 422-49-1 422-52-6 422-54-8 - 422-56-0

Ozone-depleting substances (CFC's) class II (continued)	Several
Tetrachlorodifluoropropane HCFC-232	460-89-9
Trichlorotrifluoropropane HCFC-233	7125-84-0
Dichlorotetrafluoropropane HCFC-234	425-94-5
Monochloropentafluoropropane HCFC-235	460-92-4
Tetrachlorofluoropropane HCFC-241	666-27-3
Trichlorodifluoropropane HCFC-242	460-63-9
Dichlorotrifluoropropane HCFC-243	460-69-5
Monochlorotetrafluoropropane HCFC-244	134190-50-4
Trichloromonofluoropropane HCFC-251	421-41-0
Dichlorodifluoropropane HCFC-252	819-00-1
Monochlorotrifluoropropane HCFC-253	460-35-5
Dichlorofluoropropane HCFC-261	420-97-3
Monochlorodifluoropropane HCFC-262	421-02-3
Monochlorofluoropropane HCFC-271	430-55-7

ppendix P: Pesticides	CAS – No.	
Acetamipirid	135410-20-7	
Acetampina	160430-64-	
Aldrine	309-00-2	
Azinphos methyl	86-50-0	
Azinphos ethyl	2642-71-9	
Bromophos-ethyl	4824-78-6	
Captafol	2425-06-1	
Carbaryl	63-25-2	
Chlorbenzilate	510-15-6	
Chlordane	57-74-9	
Chlordecone	143-50-0	
Chlordimeform	6164-98-3	
Chlorfenvinphos	470-90-6	
Clothianidin	210880-92-5	
Coumaphos	56-72-4	
Cyfluthrin	68359-37-5	
Cyhalothrin, λ-	91465-08-6	
Cypermethrin	52315-07-8	
Deltamethrin	52918-63-5	
Diazinon	333-41-5	
o,p'-Dichlorodiphenyldichloroethane (o,p'-DDD)	53-19-0	
p,p'-Dichlorodiphenyldichloroethane (p,p'-DDD)	72-54-8	
o,p'-Dichlorodiphenyldichloroethylene (o,p'-DDE)	3424-82-6	
p,p'-Dichlorodiphenyldichloroethylene (p,p'-DDE)	72-55-9	
o,p'-Dichlorodiphenyltrichloroethane (o,p'-DDT) and its isomers;	789-02-6	
preparations containing DDT and its isomers		
p,p'-Dichlorodiphenyltrichloroethane (p,p'-DDT) and its isomers;	50-29-3	
preparations containing DDT and its isomers	50-29-3	
2,4-Dichlorophenoxyacetic acid, its salts and compounds	94-75-7	
Dichlorprop	120-36-2	
Dicrotophos	141-66-2	
Dieldrine	60-57-1	
Dimethoate	60-51-5	

pendix P: Pesticides (continued)	CAS - No
Dinoseb and salts	88-85-7
Dinotefuran	165252-70-
Endosulfan, a-	959-98-8
Endosulfan, β-	33213-65-
Endrine	72-20-8
Esfenvalerate	66230-04-
Fenvalerate	51630-58-
Heptachlor	76-44-8
Heptachlor epoxide	1024-57-3
Hexachlorocyclohexane (HCH), all isomers	608-73-1
Tuesi de elempio	105827-78-
Imidacloprid	138261-41-
Isodrin	465-73-6
Kelevane	4234-79-1
Lindane	58-89-9
Malathion	121-75-5
MCPA	94-74-6
МСРВ	94-81-5
Mecoprop	93-65-2
Methamidophos	10265-92-
Methoxychlor	72-43-5
Methyl parathion	298-00-0
Mevinophos	7786-34-7
Mirex	2385-85-5
Monocrotophos	6923-22-4
	150824-47-
Nitenpyram	120738-89-
Ethyl parathion	56-38-2
Perthane	72-56-0
Phosphamidon	13171-21-
Profenophos	41198-08-
Propetamphos	31218-83-
Quinalphos	13593-03-
Strobane	8001-50-1
Telodrin	297-78-9
Tiacloprid	111988-49-
Thiamethoxam	153719-23
Toxaphene	8001-35-2
Tribufos (DEF)	78-48-8
2,4,5-Trichlorophenoxyacetic acid, salts and compounds	93-76-5
Trifluralin	1582-09-8

Appendix Q: Plasticizer	CAS – No.
Bis-(2-methoxyethyl) phthalate (DMEP)	117-82-8
Butylbenzyl phthalate (BBP)	85-68-7
Dibutyl phthalate (DBP)	84-74-2
Di-cyclohexyl phthalate (DCHP)	84-61-7
Diethylhexyl phthalate (DEHP)	117-81-7

Appendix Q: Plasticizer (continued)	CAS – No.
Diethyl phthalate (DEP)	84-66-2
Diisobutyl phthalate (DIBP)	84-69-5
Diisodecyl phthalate (DIDP)	26761-40-0
Disodecyi prichalate (DIDF)	68515-49-1
Diisononyl phthalate (DINP)	28553-12-0
Billionorry pricriatate (BIN)	68515-48-0
Di-isooctyl phthalate (DIOP)	27554-26-3
Di-iso-pentyl phthalate (DIPP)	605-50-5
Dimethyl phthalate (DMP)	131-11-3
Di-n-hexyl phthalate (DNHP)	84-75-3
Di-n-octyl phthalate (DNOP)	117-84-0
Dinonyl phthalate (DNP)	84-76-4
Di-n-pentyl phthalate (DnPP)	131-18-0
Di-n-propyl phthalate (DPRP)	131-16-8
n-Pentyl-isopentyl phthalate	776297-69-9
1,2-Benzenedicarboxylic acid, di- C_{6-8} -branched alkyl esters, C_7 -rich (DIHP)	71888-89-6
1,2-Benzenedicarboxylic acid, benzyl C ₇₋₉ -branched and linear alkyl esters	68515-40-2
1,2-Benzenedicarboxylic acid, di- $C_{7\text{-}11}$ -branched and linear alkyl esters (DHNUP)	68515-42-4
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4

Appendix R: Polyaromatic Hydrocarbons (PAHs)	CAS - No.
Acenaphtylene	208-96-8
Acenaphthene	83-32-9
Anthracene	120-12-7
Benzo(a)anthracene*	56-55-3
Benzo(b)fluoranthene*	205-99-2
Benzo(j)fluoranthene*	205-82-3
Benzo(k)fluoranthene*	207-08-9
Benzo(ghi)perylene	191-24-2
Benzo(a)pyrene	50-32-8
Benzo(e)pyrene*	192-97-2
Chrysene*	218-01-9
Dibenzo(a,h)anthracene*	53-70-3
Fluoranthene	206-44-0
Fluorene	86-73-7
Indeno(1,2,3-cd)pyrene	193-39-5
Naphthalene	91-20-3
Phenanthrene	85-01-8
Pyrene	129-00-0