

Lindex Limitations of Chemicals List  
Updated 2022-02-14

## List of restricted chemicals

Chemical name or Acronym	CAS RN
Acetophenone	98-86-2
Aliphatic organic solvents	Various
Alkylphenol ethoxylates APEOs – and derivatives	Various, e.g. nonylphenol ethoxylates and octylphenol ethoxylate
Alkylphenol AP	e.g. 4-nonylphenol and 4-octylphenol.
Allergenic dyes and Navy Blue	Listed in Appendix
Aniline	62-53-3
Aromatic organic solvents VOCs	Various
Azo dyes – banned arylamines derived from azo dyes	Listed in Appendix
Benzene	71-43-2
Benzotriazoles	Listed in Appendix
Biocidal agents Usage ban. Shall not be present in products.	Various.
Bisphenol A; BPA (4,4'-isopropylidenediphenol)	80-05-7
Boric acid, borate compounds	Listed in appendix
Carbon black	1333-86-4
Carcinogenic, Mutagenic, Reproductive toxic dyestuffs (CMR)	Listed in Appendix
Chlorinated phenols	Listed in Appendix
Chloroparaffins SCCPs, MCCPs, LCCPs	Listed in Appendix
Chromium VI (Cr+6)	18540-29-9
Cyclic Siloxanes	Listed in Appendix
Dibutylhydroxytoluene (BHT)	128-37-0
Dimethylfumarate, DMFu	624-49-7
Ethylene oxide	75-21-8
Ethylenethiourea	96-45-7
Flame retardants All flame retardant treatments on finished products are banned	Various
Formamide	75-12-7
Formaldehyde	50-00-0
Heavy metals	Various
Hydrazine	302-01-2, 7803-57-8
Isocyanates	Listed in Appendix
2-methoxyethyl acetate	110-49-6
N,N-dimethylacetamide (DMAC)	127-19-5
N-Methylpyrrolidone (NMP)	872-50-4
N,N-dimethylformamide (DMFa)	68-12-2
N-nitrosamines	one example: 62-75-9 (dimethylamine)
2-n-Octyl-4-isothiazolin-3-one (OIT)	26530-20-1
Per- and polyfluorinated compounds PFAS, PFOS and PFOA. Usage ban. Shall not be present in products.	Listed in Appendix
Pesticides	Listed in Appendix
Phthalate esters	Listed in Appendix

p-phenylenediamin	106-50-3
2-Phenyl-2-propanol (2-P-2P)	617-94-7
Polycyclic aromatic hydrocarbons (PAHs)	Listed in Appendix
PVC	9002-86-2
Quinoline	91-22-5
Silver and its compounds	7440-22-4
Tin organic compounds (Organostannic compounds)	Listed in Appendix
Triclosan and Triclorcarban	3380-34-5 (Triclosan) 101-20-2 (Triclocarban)
Trisubstituted tin organic compounds	Listed in Appendix
Trixylyl phosphate (also see Flame retardants)	25155-23-1

## Appendixes

Alkylphenol ethoxylates, APEOs	Acronym	CAS RN
Nonylphenol ethoxylate	NPEO	9016-45-9 (one example)
Octylphenol ethoxylate	OPEO	9002-93-1 (one example)
Aromatic organic solvents, VOCs		CAS RN
Carbon Disulfide		75-15-0
Carbon Tetrachloride		56-23-5
Chloroform		67-66-3
Cyclohexanone		108-94-1
1,2-Dichloroethane		107-06-2
1,1-Dichloroethylene		75-35-4
Ethylbenzene		100-41-4
Pentachloroethane		76-01-7
1,1,1,2-Tetrachloroethane		630-20-6
1,1,2,2-Tetrachloroethane		79-34-5
Tetrachloroethylene (PERC)		127-18-4
Toluene		108-88-3
1,1,1-Trichloroethane		71-55-6
1,1,2-Trichloroethane		79-00-5
Trichloroethylene		79-01-6
Xylenes (meta-, ortho-, para-)		1330-20-7 (Xylene)
Allergenic dyes, dyes banned for other reasons and Navy Blue		CAS RN
Basic Green 4		569-64-2 2437-29-8 10309-95-2
Basic Violet 1		8004-87-3
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 102		12222-97-8
Disperse Blue 106		12223-01-7
Disperse Blue 124		61951-51-7
Disperse Brown 1		23355-64-8
Disperse Orange 1		2581-69-3
Disperse Orange 3		730-40-5
Disperse Orange 37/59/76		13301-61-6/12223-33-5/51811-42-8
Disperse Red 1		2872-52-8
Disperse Red 11		2872-48-2
Disperse Red 17		3179-89-3
Disperse Red 151		61968-47-6
Disperse Yellow 1		119-15-3
Disperse Yellow 3		2832-40-8

Disperse Yellow 7	6300-37-4
Disperse Yellow 9	6373-73-5
Disperse Yellow 23	6250-23-3
Disperse Yellow 39	12236-29-2
Disperse Yellow 49	54824-37-2
Disperse Yellow 56	54077-16-6
Navy Blue	405-665-4 (EC#) Component 1: CAS RN 118685-33-9, C39H23ClCrN7O12S.2Na  Component 2: C46H30CrN10O20S2.3Na

<b>Allergenic dyes, dyes banned for other reasons and Navy Blue cont.</b>		<b>CAS RN</b>
C.I Disperse Blue 1		2475-45-8
C.I Disperse Blue 26		100357-99-1
C.I. Disperse Violet 1		128-95-0
Solvent Yellow 14		842-07-9
C.I. Disperse Yellow 64		10319-14-9
4-Dimethylaminoazobenzene (Solvent Yellow 2)		60-11-7
<b>Azo dyes – cleavable arylamines</b>		<b>CAS RN</b>
4-Aminoazobenzene		60-09-3
o-Aminoazotoluene		97-56-3
o-Anisidine		90-04-0
Benzidine		92-87-5
4,4'-Bi-o-toluidine		119-93-7
Biphenyl-4-ylamine		92-67-1
4-Chloroaniline		106-47-8
4-Chloro-o-toluidine		95-69-2
4-chloro-o-toluidinium chloride		3165-93-3
p-Cresidine		120-71-8
o-Dianisidine		119-90-4
3,3-Dichlorobenzidine		91-94-1
4-Methoxy-m-phenylenediamine		615-05-4
4-Methyl-m-phenylenediamine		95-80-7
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate		39156-41-7
4,4-Methylene-bis(2-chloro-aniline)		101-14-4
4,4-Methylenedianiline		101-77-9
4,4-Methylenedi-o-toluidine		838-88-0
2-Naphthylamine		91-59-8
2-Naphthylammoniumacetate		553-00-4
5-Nitro-o-toluidine		99-55-8
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
<b>Benzotriazols</b>		<b>CAS RN</b>
2-benzotriazol-2-yl-4,6-di-tert-butylphenol	UV-320	3846-71-7
2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol	UV-327	3864-99-1
2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol	UV-328	25973-55-1
2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol	UV-350	36437-37-3
<b>Boric acid, borate compounds</b>		<b>CAS RN</b>
Boric acid		10043-35-3 and 11113-50-1
Disodium tetraborate anhydrous		1303-96-4, 12179-04-3 and 1330-43-4

Tetraboron disodium heptaoxid, hydrate	12267-73-1
Sodium perborate perboric acid, sodium salt	234-390-0
Sodium peroxometaborate	7632-04-04
Disodium octaborate	12008-41-2

<b>Carcinogenic, Mutagenic, Reproductive toxic dyestuffs (CMR)</b>	<b>CAS RN</b>
Acid Red 26	3761-53-3
C.I. Acid Red 114	6459-94-5
Basic Blue 26	2580-56-5
Basic Red 9	569-61-9
Basic Violet 3	548-62-9
Basic Violet 14	632-99-5
Benzyl Violet 4B	1694-09-3
4,4'-Bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1
Direct Black 38	1937-37-7
Direct Blue 6	2602-46-2
C.I. 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 Blue 35	56524-77-7
	56524-76-6
Disperse Orange 11	82-28-0
Disperse Orange 149	85136-74-9
Michler's base	101-61-1
Michler's ketone	90-94-8
C.I. Pigment Black 25	68186-89-0
Solvent Blue 4	6786-83-0
C.I. Disperse Yellow 3	2832-40-8
Trypan blue (commercial grade)	72-57-1

<b>Chlorinated organic carriers</b>	<b>CAS RN</b>
2-Chlorotoluene	95-49-8
3-Chlorotoluene	108-41-8
4-Chlorotoluene	106-43-4
2,3-Dichlorotoluen	32768-54-0
2,4-Dichlorotoluene	95-73-8
2,5-Dichlorotoluene	19398-61-9
2,6-Dichlorotoluene	118-69-4
1,2-Dichlorobenzene	95-75-0
2,4,5-Trichlorotoluene	2077-46-5
2,3,6-Trichlorotoluene	6639-30-1
2,3,4,5-Tetrachlorotoluene	76057-12-0
Pentachlorotoluene	875-40-1
2,3,5,6-Tetrachlorotoluene	1006-31-1
Pentachlorotoluene	877-11-2
1,4-Dichlorobenzene	541-73-1
1,3-Dichlorobenzene	106-46-7
1,2,3-Trichlorobenzene	87-61-6
1,2,4-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
p-Chlorobenzotrichloride	5216-25-1
α,α,α-Trichlorotoluene	98-07-7
Benzyl Chloride	100-44-7
1,2-Dichlorobenzene	95-50-1

<b>Chlorinated organic solvents</b>	<b>Acronym</b>	<b>CAS RN</b>
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Carbon tetrachloridetetracloromethane	-	56-23-5
Chloroform	-	67-66-3
1,1 Dichloroethylene	-	75-35-4
$\alpha,\alpha,4$ -tetrachlorotoluene; p-chlorobenzotrichloride		5216-25-1
Pentachloroethane	-	76-01-7

<b>Chlorinated organic solvents cont.</b>	<b>Acronym</b>	<b>CAS RN</b>
Trichloroethylene	-	79-01-6
1,1,1,2-Tetrachloroethane	-	630-20-6
1,1,2,2-Tetrachloroethane	-	79-34-5
1,1,1-Trichloroethane	Methyl chloroform	71-55-6
1,1,2-Trichloroethane	-	79-00-5
1,2,3-Trichloropropane	-	96-18-4
<b>Chloroparaffins</b>	<b>Acronym</b>	<b>CAS RN</b>
Short Chained Chlorinated Paraffins (C10-C13)	SCCP	85535-84-8
Medium Chained Chlorinated Paraffins (C14-C17)	MCCP	85535-85-9
Long Chained Chlorinated Paraffins (C18-)	LCCP	85535-86-0
<b>Flame retardants</b>	<b>Acronym</b>	<b>CAS RN</b>
Hexabromocyclododecane	HBCDD	25637-99-4
		3194-55-6
		134237-50-6
		134237-51-7
		134237-52-8
Polybrominated biphenyls	PBB	59536-65-1 (mix)
Hexabromobiphenyl		36355-01-8
Penta-bromo-diphenyl ether	pentaBDE	32534-81-9, 60348-60-9
Octa-bromo-diphenyl ether	octaBDE	32536-52-0
Deca-bromo-diphenyl ether	decaBDE	1163-19-5
Tetrabromobisphenol	TBBP A	79-94-7
Tetrabromodiphenyl ether	TetraBDE	5436-43-1
Heptabromodiphenyl ether	HeptaBDE	207122-16-5, 446255-22-7
Hexabromodiphenyl ether	HexBDE	68631-49-2, 207122-15-4, 36483-60-0
Tris(2-chlorethyl) phosphate	TCEP	115-96-8
Tris(2,3-dibromopropyl)phosphate	TBPP	126-72-7
Tris(1-aziridinyl)-phosphine oxide	TEPA	545-55-1
Tris(1,3-dichloro-2-propyl) phosphate	TDCPP	13674-87-8
Trixylyl phosphate		25155-23-1
Vinyl bromide		593-60-2
Bis(2,3-dibromopropyl) phosphate	BDBPP	5412-25-9
2,2-bis(bromomethyl)-1,3-propanediol	BBMP	3296-90-0
2-Propanol, 1-chloro-, phosphate (3:1)	TCPP	13674-84-5
Short Chained Chlorinated Paraffins (C10-C13)1, 3	SCCP	85535-84-8
Medium Chained Chlorinated Paraffins (C14-C17)	MCCP	85535-85-9
Long Chained Chlorinated Paraffins (C18-)	LCCP	85535-86-0
<b>Isocyanates</b>	<b>Acronym</b>	<b>CAS RN</b>
Diphenylmethane-4,4-di-isocyanate	(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
<b>Other organic solvents</b>	<b>Acronym</b>	<b>CAS RN</b>
N,N-Dimethylacetamide	DMAC	127-19-5

N,N-Dimethylformamide	DMFa	68-12-2
N-Methylpyrrolidone	NMP	872-50-4
Hydrazine	-	302-01-2

<b>Per -and polyfluoroalkyl substances (PFAS)</b>		
<b>PFAS - Highly fluorinated carboxylic acids (PFOA and related substances)</b>	<b>Acronym</b>	<b>CAS RN</b>
Perfluorobutanoic acid	PFBA	375-22-4
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluoroheptanoic acid	PFHpA	375-85-9
Perfluorooctanoic acid	PFOA	335-67-1, 3825-26-1
Perfluorononanoic sodium and ammonium salts	AFPO	21049-39-8, 4149-60-4
Perfluorononanoic acid	PFNA	375-95-1
Perfluorononanoic acid sodium and ammonium salts	PFN-Na/PFNA	21049-39-8, 4149-60-4
Perfluorodecanoic acid	PFDA	335-76-2
Perfluorodecanoic acid and its sodium and ammonium salts	APFD	3830-45-3, 3108-42-7
Perfluoroundecanoic acid	PFUnA	2058-94-8
Perfluorododecanoic acid	PFDoA	307-55-1
Pentacosafuorotridecanoic acid	PFTrDA	72629-94-8
Perfluorotetradecanoic acid	PFTDA	376-06-7
<b>Highly fluorinated sulfonic acids (PFOS and related substances)</b>		
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluorohexane sulfonate	PFHxS	355-46-4
Perfluorooctane sulfonate	PFOS	1763-23-1
<b>Per -and polyfluoroalkyl substances (PFAS) - Highly fluorinated ethers</b>		
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid	HFPO-DA	13252-13-6
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic salts	KFPO-DA;AFPO-DA	67118-55-2, 2062-98-8, 62037-80-3
<b>Per -and polyfluoroalkyl substances (PFAS) – Fluorinated silicon compounds</b>		
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluorooctyl)silane triol and any of its mono-, di- or tri-O-(alkyl) derivatives	(TDFAs)	-
<b>Polycyclic aromatic hydrocarbons, PAHs</b>	<b>Acronym</b>	<b>CAS RN</b>
Acenaphthene		83-32-9
Acenaphthylene		208-96-8
Anthracene		120-12-7
Benzo[a]anthracene	-	56-55-3
Benzo[a]phenanthrene	chrysene	218-01-9
Benzo[a]pyrene	-	50-32-8
Benzo[b]fluoranthene	-	205-99-2
Benzo[j]fluoranthene	-	205-82-3
Benzo[k]fluoranthene	-	207-08-9
Benzo(j,k)fluorene		206-44-0
Benzo[g,h,i]perylene		191-24-2
Benzo[e]pyrene		192-97-2
Benzo(a)phenanthrene (chrysene)		218-01-9
Dibenz[a,h]anthracene	-	53-70-3
Naphthalene		91-20-3
Phenanthrene		85-01-8
Pyrene		129-00-0
Indeno[1,2,3-cd]pyrene		193-39-5

<b>Phthalate esters</b>	<b>Acronym</b>	<b>CAS RN</b>
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1,2-Benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters, Phthalic acid, dialkyl(C7-C11) ester	DHNUP	68515-42-4
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	-	68515-50-4
1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	-	84777-06-0
Bis(2-methoxyethyl)phthalate	DMEP	117-82-8
Butylbenzyl phthalate	BBP	85-68-7
Di(2-ethylhexyl)-phthalate	DEHP	117-81-7
Dibutyl phthalate	DBP	84-74-2
Dipentyl phthalate	DPP	131-18-0
Di-n-pentyl phthalate	DENP	
Dihexyl phthalate (Di-n-hexyl phthalate)	(DnHP/DHEXP)	84-75-3
Di-n-octyl phthalate	DNOP	117-84-0
Diisobutyl phthalate	DiBP	84-69-5
Diisodecyl phthalate	DiDP	26761-40-0 & 68515-49-1
Diisoheptyl phthalate	DIHP	71888-89-6
Diisohexyl phthalate		71850-09-4
Diisononyl phthalate	DiNP	28553-12-0 & 68515-48-0
Diisopentyl phthalate	DIPP	605-50-5
Diethylphthalate	DEP	84-66-2
N-pentyl-isopentylphthalate	-	776297-69-9
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters with $\geq 0.3\%$ of dihexyl phthalate (84-75-3)	-	68515-51-5
1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (84-75-3)	-	68648-93-1
Dicyclohexyl phthalate	DCHP	84-61-7
<b>Siloxanes</b>	<b>Acronym</b>	<b>CAS RN</b>
Octamethylcyclotetrasiloxane (D4)		556-67-2
Decamethylcyclopentasiloxane (D5)		541-02-6
Dodecamethylcyclohexasiloxane (D6)		540-97-6
Poly-dialkylsiloxanes di-Me		63148-62-9
<b>Tin organic compounds</b>	<b>Acronym</b>	<b>CAS RN</b>
Dibutyltin compounds	DBT	Various
Dibutyltin dichloride	DBTC	683-18-1
Diocetyl tin compounds	DOT	870-08-6
2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetra decanoate	DOTE	15571-58-1
Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate	Reaction mass of DOTE and MOTE	-

## Biocidal agents

Chlorinated phenols	Acronym	CAS RN
Pentachlorophenol	PCP	87-86-5, 131-52-2
2,4,6-Trichlorophenol		88-06-2
All isomers of Tetrachlorophenols	TeCP	935-95-5



<b>Tributyltin compounds</b>	<b>Acronym</b>	<b>CAS RN</b>
Tributyltin benzoate	-	4342-36-3
Tributyltin chloride	-	1461-22-9
Tributyltin fluoride	-	1983-10-4
Tributyltin linoleate	-	24124-25-2
Tributyltin methacrylate	-	2155-70-6
Tributyltin naphthenate	-	85409-17-2
Tributyltin oxide	TBTO	56-35-9

<b>Pesticides</b>	<b>CAS RN</b>
2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds; 2,4,5-TP	93-72-1
Diazinone	333-41-5
Hexachlorobenzene	118-74-1
Dichlofluanide	1085-98-9
Isodrine	465-73-6
2,4,5-T	93-76-5
Dichloroprop	120-36-5
Kelevane	4234-79-1
2,4-D	94-75-7
Dicofol	115-32-2
Kepone	143-50-0
Aldrine	309-00-2
Dicrotophos	141-66-2
Lindane	58-89-9
Azinophosmethyl	86-50-0
Dieldrine	60-57-1
Malathione	121-75-5
Azinophosethyl	2642-71-9
Dimethoate	60-51-5
MCPA	94-74-6
Bromophos-ethyl	4824-78-6
Dinoseb, its salts and acetate	88-85-7
MCPB	94-81-5
Captafol	2425-06-1
DTTB (4, 6-Dichloro-7 (2,4,5-trichlorophenoxy)-2-Trifluoro methyl benz imidazole)	63405-99-2
Mecoprop	93-65-2
Carbaryl	63-25-2
Metamidophos	10265-92-6
Chlorbenzilal	510-15-6
Endosulfan	115-29-7
Methoxychlor	72-43-5
Chlordane	57-74-9
Endosulfan I (alpha)	959-98-8
Mirex	2385-85-5
Chlordimeform	6164-98-3
Endosulfan II (beta)	33213-65-9
Monocrotophos	6923-22-4
Chlorfenvinphos	470-90-6
Endrine	72-20-8
Parathion-methyl	298-00-0
Chlorthalonil	1897-45-6
Esfenvalerate	66230-04-4
Pentachloroanisole	825-21-4
Coumaphos	56-72-4

<b>Pesticides</b>	<b>CAS RN</b>
Ethylendibromid	106-93-4
Phosdrin/Mevinphos	7786-34-7
Cyfluthrin	68359-37-5
Ethylparathione; Parathion	56-38-2
Perthane	72-56-0
Cyhalothrin	91465-08-6
Fenvalerate	51630-58-1
Propethamphos	31218-83-4
Cypermethrin	52315-07-8
Halogenated naphthalenes, including polychlorinated naphthalenes (PCNs)	Various CAS
Profenophos	41198-08-7
S,S,S-Tributyl phosphorotrithioate (Tribufos)	78-48-8
Quinalphos	13593-03-8
Deltamethrin	52918-63-5
Heptachlor	76-44-8
Quintozene	82-68-8
DDD	53-19-0,72-54-8
Heptachloroepoxide	1024-57-3
Strobane	8001-50-1
a-Hexachlorocyclohexane with & without Lindane	319-84-6
Telodrine	297-78-9
DDE	3424-82-6,72-55-9
b-Hexachlorocyclohexane with & without Lindane	319-85-7
Toxaphene	8001-35-2
Tolyfluanide	731-27-1
DDT	50-29-3,789-02-6
g-Hexachlorocyclohexane with & without Lindane	319-86-8
Trifluraline	1582-09-8