

**uvex**



**uvex group**  
**Restricted Substances List**

Parameter	CAS No.	Unit	uvex limit	Additional information	Material categories								
					Textiles		Leather		Plastics		Metals	Coatings *	Foamed rubber
					synth.	nat.	synth.	nat.	hard	soft			
<b>DMFu [Dimethylfumarate]</b>													
DMFu [Dimethylfumarate]	624-49-7	[ppm]	< 0.1			○		○					
<b>Dyes</b>													
Cleavable cancerogenic arylamines and free cancerogenic arylamines	Various	[ppm]	< Sum: 20		●	●	●	●					
Banned azo dyes which can generate carcinogenic amines	Various	[ppm]	< 20		●	●	●	●					
Carcinogenic colorants	Various	[ppm]	< 50		●		●	○					
Allergenic colorants	Various	[ppm]	< 50		●		●	○					
<b>Flame retardants</b>													
Boric acid	10043-35-3, 11113-50-1	[ppm]	n.d.										
Diboron trioxide	1303-86-2												
Disodium tetraborate, anhydrous	1303-96-4												
HBCDD [Hexabromocyclododecane]	3194-55-6												
TetraBDE [Tetrabromodiphenylether]	40088-47-9												
PentaBDE [Pentabromodiphenylether]	32534-81-9												
HexaBDE [Hexabromodiphenylether]	36483-60-0												
HeptaBDE [Heptabromodiphenylether]	68928-80-3												
OctaBDE [Octabromodiphenylether]	32536-52-0												
DecaBDE [Dekabromodiphenylether]	1163-19-5												
Tetraboron disodium heptaoxide, hydrate	12267-73-1												
TRIS [Tris(2,3-dibromopropyl)phosphate]	126-72-7												
TCEP [Tris(2-chloroethyl)phosphate]	115-96-8												
TDCPP [Tris(1,3-dichloro-isopropyl)phosphate]	13674-87-8												
TEPA [Tris(1-aziridinyl)phosphine oxide]	545-55-1												
TXP [Trixylyl phosphate]	25155-23-1												
PBB [Polybromobiphenyls]	59536-65-1, 36355-01-8												
	Various	[ppm]	< 1000	For RoHs relevant articles									
PBDE [Polybrominated diphenyl ethers]	Various	[ppm]	< 1000	For RoHs relevant articles									
TBBP A [Tetrabromobisphenol A]	79-94-7	[ppm]	< 10 each	in direct contact with skin									
BBMP [2,2-bis(bromomethyl)-1,3-propanediol]	3296-90-0												
BDBPP [Bis(2,3-dibromopropyl) phosphate]	5412-25-9												
DBDPE [Decabromodiphenylethane]	84852-53-9	[ppm]	< 10										

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					synth.	nat.	synth.	nat.	hard	soft					
<b>Formaldehyde</b>															
Formaldehyde	50-00-0	[ppm]	< 75		○	●	○	●							
<b>Heavy metals (Extractable)</b>															
Sb [Antimony]	7440-36-0	[ppm]	< 30.0	in direct contact with skin, except textiles with modacrylic	●										
As [Arsenic]	7440-38-2	[ppm]	< 1.0	in direct contact with skin	●	●	○	●	○	○	●	●	○		
Ba [Barium]	7440-39-3	[ppm]	< 1000	in direct contact with skin	●	●	●	●	○	○		●	○		
Pb [Lead]	7439-92-1	[ppm]	< 1.0	in direct contact with skin, except optical filters & PSE against ionizing radiation	●	●	●	●						●	
Cd [Cadmium]	7440-43-9	[ppm]	< 0.1	in direct contact with skin; for textiles and shoes < 1.0 ppm	●	●	●	●						●	
Cr (VI) [Chromium VI]	18540-29-9	[ppm]	< 0.5	in direct contact with skin; for leather with or without aging < 3.0 ppm, for textiles in shoes < 1.0 ppm	●	●	●	●						●	
Co [Cobalt]	7440-48-4	[ppm]	< 4.0	in direct contact with skin	●	●	●	●						●	
Cu [Copper]	7440-50-8	[ppm]	< 50.0	in direct contact with skin	●	●	●	●						●	
Ni [Nickel]	7440-02-0	[ppm]	< 4.0	in direct contact with skin, for textiles	●	●	●	●				●		●	
Hg [Mercury]	7439-97-6	[ppm]	< 0.02	in direct contact with skin	●	●	●	●						●	
<b>Heavy metals in digested sample (Total)</b>															
Pb [Lead]	7439-92-1	[ppm]	< 90.0	except optical filters & PSE against ionizing radiation											
Cd [Cadmium]	7440-43-9	[ppm]	< 40.0	except optical filters & PSE for welding			○		●	●	○	●	●		
As [Arsenic]	7440-38-2	[ppm]	< 100												
Hg [Mercury]	7439-97-6	[ppm]	< 0.5												
Cr (VI) [Chromium VI]	18540-29-9	[ppm]	< 1000	For RoHs relevant articles					●	●	●				
<b>Nickel release</b>															
Ni [Nickel]	7440-02-0	[µg/cm <sup>2</sup> /week]	< 0.5	in direct contact with skin, for metals and metallic coatings on plastics								●	○		
<b>n-Nitrosamines</b>															
n-Nitrosamines	Various	[ppm]	< 0.5 each	relevant for vulcanized materials (rubber)											●
<b>PFC [Perfluorocarbons]</b>															
PFUdA [Henicosafuoroundecanoic acid and salts]	2058-94-8, et. al.	[ppm]	< 0.1	relevance for oil/water proof applications	●	●		●							
PFDoA [Tricosafuorododecanoic acid and salts]	307-55-1, et. al.	[ppm]	< 0.1												
PFTrDA [Pentacosafuorotridecanoic acid and salts]	72629-94-8, et. al.	[ppm]	< 0.1												
PFTeDA [Heptacosafuorotetradecanoic acid and salts]	376-06-7, et. al.	[ppm]	< 0.1												
PFOS [Perfluorooctane sulfonate and related substances]	Various	[µg/m <sup>2</sup> ]	< 1.0												
PFOA [Perfluorooctanoic acid, its salts and PFOA-related substances]	335-67-1, et. al.	[µg/m <sup>2</sup> ]	< 1.0												
Perfluorobutane sulfonic acid	375-73-5	[ppm]	< 100												

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					synth.	nat.	synth.	nat.	hard	soft			
<b>Pesticides</b>													
2,4,5-Trichlorophenoxyacetic acid	93-76-5												
2,4-Dichlorophenoxyacetic acid	94-75-7												
Acetamiprid	135410-20-7, 160430-64-8												
Aldicarb	116-06-3												
Aldrine	309-00-2												
Azinophosethyl	2642-71-9												
Azinophosmethyl	86-50-0												
Bromophos-ethyl	4824-78-6												
Captafol	2425-06-1												
Carbaryl	63-25-2												
Chlorobenzilate	510-15-6												
Chlordane	57-74-9												
Chlordimeform	6164-98-3												
Chlorfenvinphos	470-90-6												
Clothianidin	210880-92-5												
Coumaphos	56-72-4												
Cyfluthrin	68359-37-5		n.d.			●		●					
Cyhalothrin	91465-08-6												
Cypermethrin	52315-07-8												
DEF	78-48-8												
Deltamethrin	52918-63-5												
DDD	53-19-0, 72-54-8												
DDE	3424-82-6, 72-55-9												
DDT	50-29-3, 789-02-6												
Diazinon	333-41-5												
Dichlorprop	120-36-5												
Dicrotophos	141-66-2												
Dieldrine	60-57-1												
Dimethoate	60-51-5												
Dinoseb, its salts and acetate	88-85-7, et. al.												
Dinotefuran	165252-70-0												

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					synth.	nat.	synth.	nat.	hard	soft										
Endosulfan	115-29-7																			
Endosulfan, α-	959-98-8																			
Endosulfan, β-	33213-65-9																			
Endrine	72-20-8																			
Esfenvalerate	66230-04-4																			
Fenvalerate	51630-58-1																			
Heptachlor	76-44-8																			
Heptachloroepoxide	1024-57-3, 28044-83-9																			
Hexachlorbenzene	118-74-1																			
Hexachlorcyclohexanes, including Lindane	319-84-6, 319-85-7, 319-86-8, 608-73-1, 58-89-9																			
Imidacloprid	105827-78-9, 138261-41-3																			
Isodrine	465-73-6																			
Kelevane	4234-79-1																			
Kepone	143-50-0		n.d.																	
Malathion	121-75-5																			
MCPA	94-74-6																			
MCPB	94-81-5																			
Mecoprop	93-65-2																			
Metamidophos	10265-92-6																			
Methoxychlor	72-43-5																			
Mirex	2385-85-5																			
Monocrotophos	6923-22-4																			
Nitenpyram	150824-47-8, 120738-89-8																			
Parathion	56-38-2																			
Parathion-methyl	298-00-0																			
Pentachlorobenzene	608-93-5																			
Perthane	72-56-0																			
Phosdrin/Mevinphos	7786-34-7																			
Phosphamidone	13171-21-6																			
Propethamphos	31218-83-4																			
Profenophos	41198-08-7																			

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					Textiles		Leather		Plastics		Metals	Coatings *	Foamed rubber							
					synth.	nat.	synth.	nat.	hard	soft										
Quinalphos	13593-03-8																			
Strobane	8001-50-1																			
Telodrine	297-78-9																			
Thiacloprid	111988-49-9		n.d.																	
Thiamethoxam	153719-23-4																			
Toxaphene (Chlorocamphene)	8001-35-2																			
Trifluralin	1582-09-8																			
Sum of Pesticides	Various	[ppm]	< Sum: 1.0																	
<b>Phenols, toluenes, benzenes (also chlorinated)</b>																				
PCP [Pentachlorophenol]	87-86-5	[ppm]	< 0.5																	
TeCP [2,3,5,6-Tetrachlorophenol]	935-95-5																			
TeCP [2,3,4,5-Tetrachlorophenol]	4901-51-3	[ppm]	< 0.5 each																	
TeCP [2,3,4,6-Tetrachlorophenol]	58-90-2																			
TrCP [Trichlorophenols]	Various	[ppm]	< Sum: 2.0																	
Chlorinated benzenes and toluenes (without 1,2-Dichlorobenzene)	Various	[ppm]	< Sum: 1.0																	
1,2-Dichlorobenzene	95-50-1	[ppm]	< 10.0																	
α,α,α,4-Tetrachlorotoluene	5216-25-1	[ppm]	< 1.0																	
α,α,α-Trichlorotoluene	98-07-7	[ppm]	< 1.0																	
α-Chlorotoluene	100-44-7	[ppm]	< 1.0																	
OPP [o-Phenylphenol]	90-43-7	[ppm]	< 25.0	for leather < 250 ppm																
Toluene	108-88-3	[ppm]	< 2.0	except gloves for special purposes																
Styrene	100-42-5	[ppm]	< 10.0																	
NP [Nonylphenol]	Various																			
OP [Octylphenol]	Various	[ppm]	< Sum: 10.0																	
NPEO [Nonylphenoethoxylates]	Various																			
OPEO [Octylphenoethoxylates]	Various	[ppm]	< Sum: 100																	
Benzene	71-43-2	[ppm]	< 5.0	for textiles, shoes and respiratory masks, or parts thereof																

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					synth.	nat.	synth.	nat.	hard	soft				
<b>Phthalates</b>														
DIBP [Diisobutylphthalate]	84-69-5	[ppm]	< Sum: 1000											
DBP [Dibutylphthalate]	84-74-2													
BBP [Benzylbutylphthalate]	85-68-7													
DEHP [Bis(2-ethylhexyl)phthalate]	117-81-7													
DIHP [1,2-Benzenedicarboxylic acid, Di-C6-8-branched alkyl esters, C7-rich]	71888-89-6	[ppm]	< Sum: 1000											
DMEP [Bis(2-methoxyethyl)phthalate]	117-82-8													
DPP [Dipentylphthalate]	131-18-0													
DIPP [Diisopentylphthalate]	605-50-5													
DnHP [Di-n-hexyl-phthalate]	84-75-3	[ppm]	< 1000 each	except for sheet materials for goggles made from cellulose acetate (CA)										
DNOP [Di-n-octylphthalate]	117-84-0													
DINP [Diisononylphthalate]	28553-12-0													
DIDP [Diisodecylphthalate]	26761-40-0													
PIPP [n-pentyl-isopentyl phthalate]	776297-69-9													
DHNUP [1,2-Benzenedicarboxylic acid, Di-C7-11-branched and linear alkyl esters]	68515-42-4													
DHxP [1,2-Benzenedicarboxylic acid. Dihexyl ester. Branched and linear]	68515-50-4													
DIOP [Diisooctylphthalate]	27554-26-3													
DCHP [Dicyclohexyl phthalate]	84-61-7													
DEP [Diethylphthalate]	84-66-2													
DMP [Dimethylphthalate]	131-11-3													
DIHxP [Diisohexylphthalate]	71850-09-4													
DPrP [Di-n-propylphthalate]	131-16-8													
DNP [Di-n-nonylphthalate]	84-76-4													
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0													
1,2-Benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5													
1,2-Benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters	68648-93-1													
Sum of all Phthalates	Various	[ppm]	< Sum: 1000	for clothing and garments in textiles „non determinable“ in direct contact with skin										

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					Textiles		Leather		Plastics		Metals	Coatings *	Foamed rubber
					synth.	nat.	synth.	nat.	hard	soft			
<b>PAH [Polycyclic aromatic hydrocarbons]</b>													
Benzo(a)pyrene	50-32-8	[ppm]	< 0.5	in direct contact with skin	●		●		●	●	●		
Benzo(e)pyrene	192-97-2	[ppm]	< 0.5										
Benzo(a)anthracene	56-55-3	[ppm]	< 0.5										
Benzo(b)fluoranthene	205-99-2	[ppm]	< 0.5										
Benzo(j)fluoranthene	205-82-3	[ppm]	< 0.5										
Benzo(k)fluoranthene	207-08-9	[ppm]	< 0.5										
Chrysene	218-01-9	[ppm]	< 0.5										
Dibenzo(a,h)anthracene	53-70-3	[ppm]	< 0.5										
Benzo(g,h,i)perylene	191-24-2	[ppm]	< 0.5										
Indeno(1,2,3-c,d)pyrene	193-39-5	[ppm]	< 0.5										
Naphthalene	91-20-3	[ppm]	< 1.0 / < 100	in direct contact with skin: < 1.0 ppm / without skin contact, provided that neutral in odor < 100 ppm (e.g. not mobilized, in activated carbon filters)									
Fluoranthene	206-44-0	[ppm]	< 10.0 each / < 100 each	in direct contact with skin: < 10.0 ppm each / without skin contact: < 100 ppm each									
Phenanthrene	85-01-8												
Pyrene	129-00-0												
Total amount of PAHs (18 PAHs')	Various	[ppm]	< Sum: 10.0	in direct contact with skin, except gloves for special purposes									
<b>Quinoline</b>													
Quinoline	91-22-5	[ppm]	< 50.0		○	○	○		○	○	○	○	
<b>SCCP [Short chain chlorinated paraffines]</b>													
SCCP [Short chain chlorinated paraffines]	85535-84-8	[ppm]	< 100				○	●	●	●		○	○
<b>Solvent residues</b>													
NMP [N-Methyl-2-pyrrolidone]	872-50-4	[ppm]	< 500		○			○					○
DMAc [Dimethylacetamide]	127-19-5	[ppm]	< 500		○								
DMFa [Dimethylformamide]	68-12-2	[ppm]	< 1000	especially for polyurethane coatings of gloves			●		○	○		●	●
Formamide	75-12-7	[ppm]	< 1000				●					●	



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					Textiles		Leather		Plastics		Metals	Coatings *	Foamed rubber
					synth.	nat.	synth.	nat.	hard	soft			
<b>Tin organic compounds</b>													
TBT [Tributyltin]	Various	[ppm]	< 0.5	in direct contact with skin									
TPhT [Triphenyltin]	Various	[ppm]	< 0.5										
DBT [Dibutyltin]	Various	[ppm]	< 1.0										
DOT [Diocetyl tin]	Various	[ppm]	< 1.0										
MBT [Monobutyltin]	Various	[ppm]	< 1.0				○		○	●		●	●
TCyHT [Tricyclohexyltin]	Various	[ppm]	< 1.0										
TMT [Trimethyltin]	Various	[ppm]	< 1.0										
TOT [Triocetyl tin]	Various	[ppm]	< 1.0										
TPT [Tripropyltin]	Various	[ppm]	< 1.0										
<b>VOC [Volatile organic compounds]</b>													
VOC [Volatile organic compounds]	Various	[ppm]	< Sum: 100	relevance for respiratory masks (especially textile filter material)	●		○	○	○	●		○	○

\* includes paints, lacquers, prints

Abbreviations:  
n.d. (non determinable)

Rev.07

18 Polycyclic aromatic hydrocarbons (18 PAHs):	CAS No.
Naphthalene	91-20-3
Acenaphthylene	208-96-8
Acenaphthene	83-32-9
Fluorene	86-73-7
Phenanthrene	85-01-8
Pyrene	129-00-0
Anthracene	120-12-7
Fluoranthene	206-44-0
Benzo(a)pyrene	50-32-8
Benzo(e)pyrene	192-97-2
Benzo(a)anthracene	56-55-3
Benzo(b)fluoranthene	205-99-2
Benzo(j)fluoranthene	205-82-3
Benzo(k)fluoranthene	207-08-9
Chrysene	218-01-9
Dibenzo(a,h)anthracene	53-70-3
Benzo(g,h,i)perylene	191-24-2
Indeno(1,2,3-c,d)pyrene	193-39-5

- High risk of chemical being in use, tests are required frequently
- Low risk of chemical being in use, at least occasional tests should be done
- Unlikely occurrence

In general the updated version of the REACH Regulation (EC) No 1907/2006 and in particular the Candidate List of SVHC (Substances of Very High Concern), Annex XIV (List of substances subject to authorisation) as well as Annex XVII (Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles) have to be complied with!

In addition the updated version of the Regulation (EC) No 2019/1021 ("POP Regulation") has to be complied with!



Valid for all products produced by UVEX SPORTS GROUP GmbH & Co. KG,  
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**protecting people**