



RESTRICTED SUBSTANCES IN FOOTWEAR COMPONENTS

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SUBSTANCE	LEGISLATION	TEST METHOD	REASON FOR CONCERN

Azo Dyes and Azo Colourants	REACH 1907/2006 Annex XVII Entry 43	Textiles: EN 14362-1 & EN 14362-3 Leather - CEN ISO/TS 17234	The prohibited amines are carcinogenic		
Nickel	REACH 1907/2006 Annex XVII Entry 27	EN 1811 + A1 Coated materials tested after EN 12472	Nickel can cause skin allergies		
Lead and its compounds	REACH 1907/2006 Annex XVII Entry 63	EN 16711-1 & EN ISO 16711-2	Harmful to the environment Toxic for reproduction		
Cadmium	REACH 1907/2006 Annex XVII Entry 23 EU Regulations 494/2011 & 835/2012	BS EN 1122 Method B	Carcinogenic. Harmful to the environment.		
PFOS -Perfluorooctane Sulphonates	POP Directive 850/2004 as amended EU by Regulation 757/2010	Solvent extraction followed by LC-MS	Persistent in the environment, bioaccululative harmful to mammals		
Phtalates	REACH 1907/2006 Annex XVII Entries 51 & 52	EN 14372 Textiles EN ISO 14389	Carcinogenic, endochine disruptors		
Dimethyl Fumarate	REACH 1907/2006 Annex XVII Entry 61	Solvent extraction followed by GC-MS	Causes painful skin contact dermatitis itching, irritation, redness and burns		
Chromium VI	REACH 1907/2006 and Regulation 201/2014	ISO 17075	Carcinogenic		
NPEO (Nonyl Phenyl Ethoxylate) & APEO (Alkyl Phenyl Ethoxylate)	REACH 1907/2006 Annex XVII Entry 46 as amended by Regulation 2016/26	AFIRM method - Textiles: EN ISO 18254- 1 / Leather: EN ISO 18512-1 & EN ISO 18512-2	Bio-accumulative, toxic to the environment and to human health; reprotoxic		
Flame Retardants	REACH 1907/2006 Annex XVII	Solvent extraction followed by GC-MS or LC-MS. EN ISO 17881-1/EN 17881-2	Persistent organic pollutant; carcinogen reprotoxic; mutagen		
SCCP Short Chain Chlorinated Paraffins	REACH 1907/2006 Annex XVII Entries 32 to 38. POP Regulation 850/2004 as amended by Regulation 2015/2030	Solvent Extration followed by NCI-GC- MS	Toxic to the Environment		
Chlorinated Phenols (Pentachlorophenol)	REACH 1907/2006 Annex XVII Entry 22	DIN 53313 for Leather	Bio-accumulative; persistent in the environment, toxic to aquatic species suspected carcinogen		
Biocides	EU Biocidal Product Directive 98/9/EC	Solvent extraction followed by GC-MS or LC-MS.	Harmful to health and environment		
Polycyclic Aromatic Hydrocarbons (PAH)	REACH 1907/2006 Annex XVII 50 as amended by Regulations 1272/2013 and 326/2015	AFPS GS 2014 - Footwear: ISO/TS 16190	Carcinogenic		
Allergenic Diesperse Dyes	Eco-labelling schemes	DIN 54231 - Textiles	Irritant		
Carcinogenic Disperse Dyes	Eco-labelling schemes	DIN 54231 - Textiles	Carcinogenic		

	AnimalFibers	CellulosicTextile	SyntheticTextile	PVC Plastic & Coating	Non PVC Plastic & Coating	Leather	Metal	Rubber	Adhesives	Paints & Coatings	Foam	Paper
Azo Dyes		V	٧			٧						
Allergenic / Carcinogenic Disperse Dyes			٧									
Chromium VI						٧	٧			V		
Phthalates				٧					V			
Flame Retardents HBCDD TRIS TEPA Deca- BDE	V	V	٧	٧	٧						V	
Nickel (release)							٧					
Diaminodiphenylmethane (MDA)					٧			V	٧	V		
Total Lead / Lead Compounds				٧	٧					V		
Soluble Heavy Metals				٧	٧	٧				V		V
Formaldehyde	$\sqrt{}$	V	٧			٧			٧		V	
Dimethylacetamide			٧									
Organic Tin				٧		٧		V		V		
Alkyl/Nonyl Phenyl ethoxylates (APEO/NPEO)	$\sqrt{}$	V	٧									V
Dimethyl Formamide (DMF)					٧					V		
Perfuorooctanate sulphonate (PFOS) ²	V	٧	٧			٧						
Polycyclic Aromatic Hydrocarbons			٧		٧	٧		٧				
Short Chain Chlorinated Phenols (SCCP) ³		V	٧					٧		V		