## ELK

## **RESTRICTED SUBSTANCES LIST (RSL)**

The following restricted chemicals must not be used intentionally in the manufacture of ELK materials, garments or accessories, and must not be present in the finished product at concentrations above the specified limit.

SUBSTANCE	CAS NO.	RESTRICTION / LIMITS	RELEVANT TEST METHODS		
Alkylphenol (AP) and Alkylphenol Ethoxylates (APEOs): including all isomers					
Nonylphenol (NP), mixed isomers					
Octylphenol (OP), mixed isomers	Various	10 mg/kg (AP); 100mg/kg (AP+APEO in total)	ISO 18254–1		
Octylphenol ethoxylates (OPEO)					
Nonylphenol ethoxylates (NPEO)					
	Chloroph	enols and other phenols			
Pentachlorophenol (PCP)	87-86-5				
Tetrachlorophenol (TeCP) + isomers	25167-83-3 4901-51-3 58-90-2 935-95-5	Prohibited (detection limit: 0.5 mg/kg)			
Trichlorophenol (TCP) + isomers	25167-82-2 Various	<ul> <li>2 mg/kg</li> <li>0.2 mg/kg (baby products up to 36 months)</li> </ul>	LFGB §64 BVL B82.02.8 (textile / leather) ISO 17070 (leather)		
2–Polyphenol, ortho– phenylphenol (OPP)	90-43-7	<ul> <li>100 mg/kg</li> <li>50 mg/kg (baby products up to 36 months)</li> </ul>			
Chlorophenols and dichlorophenols	Various	No intentional use			
Dyes					
Azo (Forming Restricted Amines)	Various	Each listed amine: 30 mg/kg (24 amines)	EN 14362–1 / EN 14362–3 / ISO 24362–1 / ISO 24362–3 (textiles) ISO 17234–1 (leather)		
Navy Blue Colourant	118685-33-9	1000 mg/kg (substances and mixtures)	DIN 54231		
Carcinogenic or Equivalent Concern	Various	Prohibited (detection limit: 1 mg/L in extract)	DIN 54231		
Allergenous Disperse Dyes (Sensitising)	Various	5 mg/L in extract	DIN 54231		

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Flame Retardants						
PBB, TRIS, TEPA, TetraBDE, PentaBDE, HexaBDE, HeptaBDE, HBCDD, OctaDBE, PCN, Hexabromobiphenyl	Various	Prohibited	Solvent extraction and analysis by GC–MS / LC–MS			
Organotin Compounds						
TBT, TPhT	Various	Prohibited				
Trisubstituted Organostannic Compounds	Various	0.1% by weight of tin	ISO 17353			
DBT, DOT	Various	0.1% by weight of tin				
	Polycyclic Arc	omatic Hydrocarbons (PAHs)				
BaP, BeP, BaA, CHR, BbF, BjF, BkF, DBA	Various	<ul> <li>1.0 mg/kg (each)</li> <li>0.5 mg/kg (toy and childcare article)</li> </ul>	ISO 18287			
Other PAHs	Various	No intentional use				
	Perfluorinated and	Polyfluorinated Chemicals (PFCs)				
Perfluorooctane sulfonate (PFOS)	335–67–1 2795–39–3	Nil detected	Solvent extraction and analysis by LC–MS			
Perfluorooctanoic acid (PFOA), its salts and esters	Various	1 mg/m2 (textile / coated materials)	CEN/TS 15968			
Ph	thalates – including a	all other esters of ortho–phthalic a	cid			
DEHP, BBP, DBP	117–81–8 85–68–7 84–74–2	1000 mg/kg (toys and children's products, up to 12 years / belts, apparel, headwear)	EN 14372 / ISO 14389			
dinp, didp, dnop	28553–12–0 26761–40–0 117–84–0	1000 mg/kg (toys and children's products that can be placed in the mouth)				
Other phthalates	Various	No intentional use				
		Heavy Metals				
Total Arsenic (AS)	7440-36-0	100 mg/kg	EN ISO 17294-2			
Total Cadmium (Cd)	7440-43-9	<ul> <li>Not permitted – paint</li> <li>100mg/kg – plastic / metal in jewelry</li> <li>1000mg/kg – surface coating paint</li> </ul>	EN 1122 / CNS 4797–2 (Extractable content)			
Total Lead (Pb)	7439–92–1	<ul> <li>30 mg/kg (apparel with PVC, neoprene or plastic)</li> <li>90 mg/kg (children's products / paints and surface coating)</li> <li>100 mg/kg (all other products)</li> <li>500 mg/kg (fashion jewelry)</li> </ul>	Acid digestion and analysis by ICP–OES / ICP–MS CPSC Test Method			
Chromium (VI) content	18540–29–9	3 mg/kg	ISO 17075			
Nickel (Ni) release (metal and metal coated items)	7440-02-0	<ul> <li>0.5 mg/cm2/week</li> <li>0.2 mg/cm2/week</li> <li>(body piercing)</li> </ul>	EN 1811 (non–coated item) EN 12472 & EN 1811 (coated item)			

SUBSTANCE	CAS NO.	RESTRICTION / LIMITS	RELEVANT TEST METHODS			
Other restricted substances						
Asbestos	Various	Nil detected	—			
Chlorinated Organic Carriers	Various	1.0 mg/kg (sum)	DIN 54232			
Chlorobenzenes and Chlorotoluenes	Various	No intentional use				
Dimethyl Fumarate (DMFu)	624-49-7	0.1 mg/kg	Solvent extraction and analysis by GC–MS			
Fluorinated Greenhouse Gases	Various	No intentional use	—			
Formaldehyde	50-00-0	Prohibited in baby products 75 mg/kg (garments in contact with skin) 300 mg/kg (other garments and fabrics)	ISO 14184–1 (textile) ISO 17226–1 (leather)			
Glycols and Glycol Ethers	Various	No intentional use	GC-MS			
Halogenated solvents	Various	No intentional use	Solvent extraction and analysis by GC–MS			
Ozone Depleting Substances	Various	Nil detected	—			
Pesticides / Insecticides / Biocides	Various	Nil detected	_			
Short Chain Chlorinated Paraffin (SCCP)	85535-84-8	1000 mg/kg	ISO 18219			
Volatile Organic Compounds	Various	No intentional use	CG-MS			

A more detailed list, including individual chemical names and CAS numbers within each group, is available on request.