

## WESTWING

## Textiles and Rugs Restricted Substances List (RSL)

**NOVEMBER 2020** 

## Restricted Substances List (RSL)

## Chemical compounds and substances for Rugs and Textiles (incl. Upholstery Textiles)

This requirement document describes WESTWING bans and restrictions on certain chemical compounds and substances due to national or international regulations and/or health and environmental concerns defined by WESTWING.

The purpose of WESTWING requirements concerning chemical substances in WESTWING products is to:

- minimize harmful effects to customers' health and to the environment from WESTWING products.
- ensure compliance of WESTWING products with health and environmental regulations in all WESTWING markets.

Unless otherwise stated, the requirements are valid for each separate homogeneous material in the product.

This document will be updated regularly.

Classification	Restricted Substances	Cas No.	Potential Uses	Testing Method	Regulation / Limit Value
Formaldehyde	Formaldehyde	50-00-0	Used in textiles as an anti-creasing and anti-shrinking agent. It is also often used in polymeric resins.  Sources: Easy care treatment, cross-linking agent, preservatives, fix agents, adhesives & glues.	All materials except leather: ISO 14184-1 Leather: ISO 17226-1/-2	EU REACH ANNEX XVII Entry 72 CMR Substances  By way of derogation, in relation to the placing on the market of formaldehyd [CAS No 50-00-0] in jackets, coats or upholstery, the relevant concentration for the purposes of paragraph 1 shall be 300 mg/kg during the period between November 2020 and 1 November 2023.  Baby (<=36months):16mg/kg, non baby: - direct skin contact: 75mg/kg - without skin contact: 300mg/kg (commercials requirements for carpet)
Acidic and Alkaline Substances	pH value	various	To avoid irritation or chemical burns to the skin, the pH value of products must be in the range of human skin—	Textile and artificial leather: ISO 3071 Leather:	No legal requirement in EU incl. Switzerland  Westwing requirement:
			approximately pH 5.5.  Usually for white or uncoloured textile, pH is 4.0~5.5 to avoid yellowing.	ISO 4045	all carpets: 4.0-9.0 ( without direct skin contact) all carpets: 4.0-7.5 ( with direct skin contact) carpet with POD backing: 4.0-9.0 mandatory for Westwing
Organotin Compounds	Tributyltin (TBT)	various	Organotins can be used as biocides (e.g., antibacterials),	Acid digestion, ICP-OES for Tin screening	EU REACH ANNEX XVII Entry 20
	Triphenyltin (TPhT)	various	catalysts in plastic and glue production, and heat stabilizers in		
	Trimethyltin (TMT)	various	plastics/rubber.	If Tin > 0.1%, CEN ISO/TS 16179 or Solvent	Sum of TBT, TPhT, TMT,TOT,TCyHT: 0.1% (1000mg/kg)by weight of Tin;
	Trioctyltin (TOT)	various	In textiles and apparel, organotins are	Extraction, GC-MS Analysis for further	
	Tricyclohexyltin (TCyHT)	various	associated with plastics/rubber, inks,	confirmation	DBT & DOT Each: 0.1%( 1000mg/kg) by weight of Tin
	Dibutyltin (DBT)	various	— paints, metallic glitter, polyurethane	Committee	DBT & DBT Eden. 0.1% (1000mg/kg) by weight of Till
	Dioctyltin (DOT)	various	products and heat transfer material.		
AZO Dyes and Arylamine	4-Amino azobenzene	60-09-3	Azo dyes and pigments are colorants	All materials except Leather:	EU REACH ANNEX XVII Entry 43
Salts	o-Aminoazotoluene	97-56-3	that incorporate one or several azo	EN ISO 14362-1	#EU REACH ANNEX XVII Entry 72 CMR Substances
	4-Aminodiphenyl	92-67-1	groups (-N=N-) bound with aromatic	Leather: EN ISO 17234-1	
	2-Amino-4-nitrotoluene	99-55-8	compounds, can be found in disperse dye, reactive dye,	p-Aminoazobenzene:	each 30mg/kg of 22 azo dyes & related salts
	o-Anisidine	90-04-0	direct dye, acid dye etc.	All materials except Leather:	,
	Benzidine	92-87-5	Thousands of azo dyes exist, but	EN ISO 14362-3	*Westwing requirement:
	p-Chloroaniline	106-47-8	·		
	4-Chloro- <i>o</i> -toluidine	95-69-2	only those which degrade to form the	Leather: EN ISO 17234-2	textile/leather/paint/print/coating/feather/down/wood/paper/natural straw
	p-Cresidine	120-71-8	isted cleavable amines are restricted.		[Excl white color] of prod`ts shall have <= 20 mg/kg
	2,4-Diaminoanisole	615-05-4			of 24 azo dyes & 4 related salts.



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	4,4'-Diaminodiphenylmethane	101-77-9			
	3,3'-Dichlorobenzidine	91-94-1			
	3,3'-Dimethoxybenzidine	119-90-4			
	3,3'-Dimethylbenzidine	119-93-7			
	3,3'-Dimethyl-4,4'-diamino-diphenylmethane	838-88-0			
	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	_		
	2-Naphthylamine	91-59-8			
	4,4'-Oxydianiline	101-80-4			
	4,4'-Thiodianiline	139-65-1			
	2,4-Toluenediamine	95-80-7			
	o-Toluidine	95-53-4	_		
	2,4,5-Trimethylaniline	137-17-7	4		
	2,4-Xylidine *	95-68-1	4		
	2,6-Xylidine *	87-62-7	4		
	4-Chloro-o-toluidinium chloride #	3165-93-3	4		
	2-Naphthylammoniumacetate #	553-00-4	4		
	4-Methoxy-m-phenylene diammonium sulphate #	39156-41-7			
	2,4,5-Trimethylaniline hydrochloride #	21436-97-5			
<u>फ</u> Total Heavy Metals	Cadmium (Cd) and its compounds	7440-43-9	Cadmium compounds may be	Acid Digestion Method, ICP-OES	EU REACH ANNEX XVII Entry 23
W W			used as pigments (especially in red,		
<b>∑</b>			orange, yellow and green); as a		Paints on painted article: 1000mg/kg
Ĭ			stabilizer for PVC; and in fertilizers,		Other plastic material: 100mg/kg
			biocides, and paints.		Metal part in jewelry:100mg/kg
					(expressed as Cd metal)
	Lead (Pb) and its compounds	7439-92-1	May be associated with alloys,	Acid Digestion Method, ICP-OES	EU REACH ANNEX XVII Entry 63
			plastics, paints, inks, pigments and	If the content of total Pb>=500mg/kg, additional	
			surface coatings.	testing for Pb release will be conducted according	500mg/kg for jewelry product
				to EN 16711-3 for applicable condition.	500mg/kg or lead release <=0.05 μg/cm²/h ( for articles or accessible parts
					thereof may, during normal or reasonably forseeable conditions of use, be
					placed in the mouth by children.
					(expressed as Pb metal)
					(CAPI COSCU US I S INCCUI)
Extractable Heavy	Cadmium and its compounds	_	Cadmium compounds may be	EN 16711-2	EU REACH ANNEX XVII Entry 72 CMR Substances
Metals			used as pigments (especially in red,		
			orange, yellow and green); as a		each 1mg/kg
			stabilizer for PVC; and in fertilizers,		(expressed as metal)
			biocides, and paints.		
	Arsenic and its compounds	_	Arsenic and its compounds can be		
	'		used in preservatives, pesticides, and		
			defoliants for cotton, synthetic fibers,		
			paints, inks, trims, and plastics.		
	Lead and its compounds		May be associated with alloys,	_	
	Lead and its compounds				
			plastics, paints, inks, pigments and		
	Characters VI		surface coatings.	EN 4774 2 ISO 47075 4 2 5 5 2 2 4	1
	Chromium VI compounds	-	Chromium VI may be used in the "after-chroming" process	EN 16711-2, ISO 17075-1 or -2 for Cr VI	
			for wool dyeing (Chrome salts applied to acid-dyed wool to	confirmation	
			improve fastness).		
Chromium VI	Chromium VI	18540-29-9	Though typically associated with	EN ISO 17075-1/-2	EU REACH ANNEX XVII Entry 47
			leather tanning		
					Leather article/part coming into contact with skin: 3mg/kg
NE-L-LD L	Michal Dalogge (NIC)	7440.02.0	Nickel and the consequents and t	TNI 12 472 am J TNI 1011	FILDEACH ANNEY YVIII Forture 27
Nickel Release	Nickel Release (Ni)	7440-02-0	Nickel and its compounds can be	EN 12472 and EN 1811	EU REACH ANNEX XVII Entry 27
			used for plating alloys and improving		
			corrosion-resistance and hardness		Prolonged skin contact: 0.05 μg/cm²/week
			of alloys. They can also occur as		
			impurities in pigments and alloys.		



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Toxic Elements in	Pb+Cd+Hg+Cr VI	_	_	Acid Digestions followed by ICP/AAS Analysis, UV-	Directive 94/62/EC
Packaging Components				Visible Spectrometer	Sum (Pb+Cd+Hg+Cr VI): 100mg/kg
Chlorinated Paraffins	Short-chain Chlorinated Paraffins (SCCPs) (C10-C13)	85535-84-8	Can be used as softeners, flame retardants, or fat-liquoring agents in leather production; also as a	ISO 18219	POP's regulation (EU) 2019/1021 1500mg/kg
Chlorophenols  Dimethylfumarate	Pentachlorophenol (PCP)  Dimethylfumarate (DMFu)	87-86-5	Chlorophenols are polychlorinated compounds used as preservatives or pesticides.  PCP can also be used as in-can preservatives in print pastes and other chemical mixtures.  DMFu is an anti-mold agent that may be used in sachets in packaging		EU REACH ANNEX XVII Entry 22: 0,1% (1000mg/kg) for substances or mixture  POP's regulation (EU) 2019/1021: 5 mg/kg (Detection Limit: 0.5 mg/kg)  Swiss Chemical Risk Reduction Ordinance (ChemRRV/ORRChem) Art. 3 Appendix 1.2 and Appendix 2.17 Not used  German Food, Feed and Commodities Law §30 (LFGB §30) 5 mg/kg  Requirement Westwing: Not detected  EU REACH ANNEX XVII Entry 61 0.1mg/kg
			to prevent the buildup of mold, especially during shipping.		
Alkylphenol Ethoxylates (APEOs)	Nonylphenol ethoxylates (NPEOs)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 1270087-87-0	APEOs can be used as or found in detergents, scouring agents, spinning oils, wetting agents, softeners, emulsifying/dispersing agents for dyes and prints, impregnating agents, de-gumming for silk production, dyes and pigment preparations, polyester padding and down/feather fillings.	EN ISO 18254-1	EU REACH ANNEX XVII Entry 46a  for textile article: <100mg/kg for NPEO
পূ Perfluorooctane	Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFOA and PFOS may be present as	EN ISO 23702-1	POP's regulation (EU) 2019/1021
Sulfonated Chemicals ( Planting and Polyfluorinated Chemicals ( Planting and Sulfonated Chemicals ( Pl	tetraethylammonium salt (PFOS-N( $C_2H_5$ ) <sub>4</sub> ) N-Ethylperfluoro-1-octanesulfonamide (N-Et-	70225-14-8 56773-42-3	unintended byproducts in long-chain and short-chain commercial water-, oil-, and stain-repellent agents. PFOA may also be used in polymers like Polytetrafluoroethylene (PTFE).		sum 1 μg/m² for textile and coated material
Pe	ethanol (N-Et-FOSE)  2-(N-Methylperfluoro-1-octanesulfonamido)- ethanol (N-Me-FOSE)  Perfluoro-1-octanesulfonyl fluoride (POSF)	24448-09-7 307-35-7			
	Perfluorooctane sulfonamide (PFOSA)	754-91-6	]		
Perfluorooctanoic	Perfluorooctanoic acid (PFOA)	335-67-1			EU REACH ANNEX XVII Entry 68
Acid (PFOA) and its	Sodium perfluorooctanoate (PFOA-Na)	335-95-5			POP's regulation (EU) 2019/1021



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Salts	Potassium perfluorooctanoate (PFOA-K)	2395-00-8			·
Jaits	Silver perfluorooctanoate (PFOA-Ag)	335-93-3			PFOA and its salts: sum 25 ppb
	Perfluorooctanoyl fluoride (PFOA-F)	335-66-0			··
	Ammonium pentadecafluorooctanoate (APFO)				PFOA- related substances: sum 1000 ppb
PFOA-related	1H,1H,2H,2H-Perfluorodecanesulfonic acid	39108-34-4			
Substances	(8:2 FTS)				
	Methyl perfluorooctanoate (Me-PFOA)	376-27-2			
	Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5			
	2-Perfluorooctylethanol (8:2 FTOH)	678-39-7			
	1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9			
	1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9			
Flame Retardants	Polybromobiphenyls (PBB)	59536-65-1	With very limited exceptions, flameretardant	EN ISO 17881-1/-2	EU REACH ANNEX XVII Entry 8
i idilie ivetal dalits	Polybromobiphenyis (PBB)		chemicals, including the	E14 13	For in skin contact textiles articles: not used
	Tris(aziridinyl)phosphinoxide(TEPA)		entire class of Organohalogen		EU REACH ANNEX XVII Entry 7
			flame retardants, should no longer		For in skin contact textiles articles: not used
	Tris (2,3 dibromopropyl) phosphate(TRIS)	1	be applied to materials during		EU REACH ANNEX XVII Entry 4
			production.		For in skin contact textiles articles: not used
	Hexabromocyclododecane (HBCDD)	3194-55-6			POP's regulation (EU) 2019/1021
					0.01% ( 100mg/kg)
	Tetrabromodiphenyl ether(TetraBDE)	40088-47-9	1		POP's regulation (EU) 2019/1021
	Pentabromodiphenyl ether(PentaBDE)	32534-81-9			Sum:500mg/kg
	Hexabromodiphenyl ether(HexaBDE)	36483-60-0			
	Heptabromodiphenyl ether(HeptaBDE)	446255-22-7			EU REACH ANNEX XVII Entry 67
	Decabromodiphenyl ether(DecaBDE)	1163-19-5			DecaBDE: 0.1% (1000mg/kg)
Phthalates	Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7	Esters of ortho-phthalic acid	CPSC-CH-C1001-09.4	EU REACH ANNEX XVII Entry 51
	Dibutylphthalate (DBP)	84-74-2	(Phthalates) are a class of organic	EN ISO 14389	EU REACH ANNEX XVII Entry 72 CMR Substances
	Butylbenzylphthalate (BBP)	85-68-7	compound commonly added to		· ·
	Diisobutylphthalate (DIBP)	84-69-5	plastics to increase flexibility. They		Single or sum <= 0.1%
	1,2-benzenedicarboxylic acid; di-C 6-8-	71888-89-6	are sometimes used to facilitate the		
	branched alkylesters, C 7-rich		molding of plastic by decreasing its		
	Bis(2-methoxyethyl) phthalate	117-82-8	melting temperature.		
	Diisopentylphthalate	605-50-5	]		
	Di-n-pentyl phthalate (DPP)	131-18-0	Phthalates can be found in:		
	Di-n-hexyl phthalate (DnHP)	84-75-3	Flexible plastic components		
	Di ii nexyi pintilalate (Diii ii )	04 73 3	(e.g., PVC)		
			• Print pastes		
			Adhesives		
			Plastic buttons		
			Plastic sleevings		
Polycyclic Aromatic	Benz[a]anthracene	56-55-3	PAHs are natural components of	AfPS GS 2019.01 PAK	EU REACH ANNEX XVII Entry 50
Hydrocarbons (PAHs)	Benz[e]acephenanthrylene	205-99-2	crude oil and are common residues from oil refining. PAHs		EU REACH ANNEX XVII Entry 72 CMR Substances
i iyal ocal bolis (FATIS)	benzo[a]pyrene; benzo[d,e,f]chrysene	50-32-8	_		· · · · · · · · · · · · · · · · · · ·
	Benzo[e]pyrene	192-97-2	have a		German Food, Feed and Commodities Law §30 (LFGB §30)
	Benzo[j]fluoranthene	205-82-3	characteristic smell similar to that of car tires or asphalt. Oil		AfPS GS 2019.01 PAK
	Benzo[k]fluoranthene	207-08-9	residues containing PAHs are added to rubber and plastics as		
	Chrysene	218-01-9	a softener or extender and may be found in rubber, plastics,		*Follows limits in AfPS GS 2019:01 PAK
	Dibenz[a,h]anthracene	53-70-3	lacquers and coatings. PAHs		
			are often found in the outsoles of footwear and in printing		Concrete REACH and AfPS GS 2019:01 PAK Requirements: see separate Sheet
	*Anthracene	120-12-7 191-24-2	pastes for screen prints. PAHs can be present as impurities in		
	*Benzo[g,h,i]perylene  *Fluoranthene	206-44-0	Carbon Black. They also may be formed from thermal		
	*Indeno[1,2,3-cd]pyrene	193-39-5	decomposition of recycled materials during reprocessing.		
	*Naphthalene	91-20-3			
	*Phenanthrene	85-01-8			
	*Pyrene	129-00-0			
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Classification	Restricted Substances	Cas No.	Potential Uses	Testing Method	Regulation / Limit Value
Volatile Organic	Benzene	71-43-2	VOCs are associated with solventbased	Headspace GC-MS	EU REACH ANNEX XVII Entry 72 CMR Substances
Compound (VOC)			processes such as solventbased		5mg/kg
			polyurethane coatings and		
			glues/adhesives.		
Chlorinated Aromatic	$\alpha, \alpha, \alpha, 4$ -tetrachlorotoluene; p-	5216-25-1	Chlorobenzenes and Chlorotoluenes	EN 17137	EU REACH ANNEX XVII Entry 72 CMR Substances
Hydrocarbons	$\alpha, \alpha, \alpha,$ -trichlorotoluene; benzotrichloride	98-07-7	(Chlorinated Aromatic Hydrocarbons)		each 1mg/kg
	α,-chlorotoluene; benzyl chloride	100-44-7	can be used as carriers in the		
	a, one concerns, sone, one nac		dyeing process of polyester or wool/		
			polyester fibers. They can also be		
			used as solvents.		
Solvents	N-methyl-2-pyrrolidone (NMP)	872-50-4	Industrial solvent used in production of water-based	ISO/TS 16189	EU REACH ANNEX XVII Entry 72 CMR Substances
			Polyurethanes and other polymeric materials. May also		each 3000mg/kg
			be used as a surface treatment for textiles, resins, and metal-		
			coated plastics, or as a paint stripper.		
	N,N-dimethylacetamide (DMAC)	127-19-5	Solvent used in the production of elastane fibers and		
			sometimes as		
			substitute for DMFa.		
	N,N-dimethylformamide (DMFa)	68-12-2	Solvent used in plastics, rubber, and		
			polyurethane (PU) coating.		
Quinoline	Quinoline	91-22-5	Found as an impurity in polyester and	DIN 54231	EU REACH ANNEX XVII Entry 72 CMR Substances
			some dyestuffs.		50mg/kg
Allergenic Carcinogenic	C.I. Disperse Blue 1 #	2475-45-8	Disperse dyes are a class of water insoluble dyes that	DIN 54231	German Food, Feed and Commodities Law §30 (LFGB §30)
Disperse Dyestuffs	C.I. Disperse Blue 3	2475-46-9	penetrate the fiber system of synthetic or manufactured		Not detected
	C.I. Disperse Blue 35	56524-77-	fibers and are held in place by physical forces without		(detection limit : 5mg/l in extract)
		7/56524-76-6	forming chemical bonds. Disperse dyes are used in synthetic		
	C.I. Disperse Blue 106	12223-01-7	fiber (e.g., polyester, acetate etc.).		#EU REACH ANNEX XVII Entry 72 CMR Substances
	C.I. Disperse Blue 124	61951-51-7	-		C.I. Disperse Blue 1
	C.I. Disperse Red 1 C.I. Disperse Orange 3	2872-52-8 730-40-5	-		C.I. Basic Red 9
	C.I. Disperse Orange 37/59/76	13301-61-	1		C.I. Basic Violet 3 with >= 0.1 % of Michler's ketone
	C.i. Disperse Grange 37737770	6/12223-33-			each 50mg/kg
		5/51811-42-8			
	C.I. Disperse Yellow 3	2832-40-8	1		
	C.I. Basic Red 9 #	569-61-9			
	C.I. Basic Violet 3 with >= 0,1 % of Michler's	548-62-9			
SVHC Screening	_		Candidate List of substances of very high concern of for	In House Method	REACH Regulation (EC) No 1907/2006
(additional non mandatory			Authorisation cover AP/APEO, phthalates, flame retardants,		0.1% (w/w) per article/component
SVHCs by request only)			SCCP, lead chromate pigment, DMFa, NMP, DMAc etc.		Supplier needs to notify ECHA and WESTWING if the article contains an SVHC
					in quantities above one tonne per producer/importer per year and if the
					substance is present in those articles above a concentration of 0.1% (w/w).
					WFD Directive 2008/98/EC
					0.1% (w/w) per article/component
					Supplier needs to notify ECHA by submit SCIP notification and WESTWING if
					the article contains an SVHC above a concentration of 0.1% (w/w).
					each 1000 mg/kg (0.1%)
				<u>l</u>	



Cla	sification	Restricted Substances	Cas No.	Potential Uses	Testing Method	Regulation / Limit Value			
All t	iocidal treated luct		_	Biocidal products, which are used to protect humans, animals materials or articles against harmful organisms like pests or bacteria, by the action of the active substances contained in the biocidal product.	Due diligence	The Biocidal Products Regulation (BPR, Regulation (EU) 528/2012) -Authorized active substances -the labeling (CLP) Regulation ((EC) No 1272/2008)			
PVC	Product	_	_	For legal requirement conformance (total Cadmium/Organotins /Phthalates/SCCP etc.) concern.	Due diligence	Phase out PVC material.			
Nat	ural Latex Product	_	_	Can cause allergic reaction (to protein) after contacting with human skin.	Due diligence	Phase out natural latex for allergen concern.			
	ark:								
2)	REACH Regulation ( EC) No 1907/2006 EU REACH ANNEX	REACH stands for Registration, Evaluation, Authorisation and Restriction of Chemicals. It entered into force on 1 June 2007.  REACH is a regulation of the European Union, adopted to improve the protection of human health and the environment from the risks that can be posed by chemicals, while enhancing the competitiveness of the EU chemicals industry. It also promotes alternative methods for the hazard assessment of substances in order to reduce the number of tests on animals.  COMMISSION REGULATION (EU) 2018/1513 of 10 October 2018 amending Annex XVII to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals							
	XVII Entry 72 CMR Substances	(REACH) as regards certain substances classified as carcinogenic, mutagenic or toxic for reproduction (CMR), category 1A or 1B							
3)	BPR, Regulation (EU) 528/2012	The Biocidal Products Regulation (BPR, Regulation (EU) 528/2012) concerns the placing on the market and use of biocidal products, which are used to protect humans, animals, materials or articles against harmful organisms like pests or bacteria, by the action of the active substances contained in the biocidal product. This regulation aims to improve the functioning of the biocidal products market in the EU, while ensuring a high level of protection for humans and the environment.							
4)	POP's regulation (EU) 2019/1021	Persistent organic pollutants (POPs) are organic substances that persist in the environment, accumulate in living organisms and pose a risk to our health and the environment. They can be transported by air, water or migratory species across international borders, reaching regions where they have never been produced or used. International risk management is necessary as no region can manage the risks posed by these substances alone.							
5)	CLP Regulation (EC) No 1272/2008	The Classification, Labelling and Packaging (CLP) Regulation ((EC) No 1272/2008) is based on the United Nations' Globally Harmonised System (GHS) and its purpose is to ensure a high level of protection of health and the environment, as well as the free movement of substances, mixtures and articles.							
6)	WFD, Directive 2008/98/EC	Directive 2008/98/EC on waste (Waste Framework Directive) sets the basic concepts and definitions related to waste managament, such as definitions of waste, recycling, recovery. It explains when waste ceases to be waste and becomes a secondary raw material (so called end-of-waste criteria), and how to distinguish between waste and by-products, and lays down some basic waste management principle.							





WESTWING