G-STAR RAW

MANUFACTURING RESTRICTED SUBSTANCES LIST

VERSION 1.0 - OCTOBER 2014

INTRODUCTION

This Manufacturing Restricted Substance List (MRSL) will assist in the control of hazardous substances used to process textile and trim materials. Natural leather and metal trim parts are excluded from the scope of this MRSL.

The document addresses hazardous substances potentially used and discharged into the environment during manufacturing and related processes, not just those which could be present in finished products. G-Star Raw C.V, anticipates that suppliers will work closely with their chemical and material suppliers to ensure substances mentioned in this MRSL are not present above the limits given in any of the chemical commercial products that are purchased from chemical suppliers. This MRSL is an important part of G-Star's Corporate Responsibility program and shall be shared with all suppliers, sub-contractors and others involved in the production of G-Star products. The following production are targeted by this document: Mill, Printing, CMT, Finishing and Trim suppliers (excl. metal trims).

Purpose of the list

G-Star cares about consumers and the environment. Our suppliers are critical partners in our commitments in the area of consumer safety and environmental protection. The MRSL contains a list of chemical substances by CAS# that are subject to a usage ban. The MRSL applies to chemicals used in the manufacturing of materials, components and finished products, which include solvents, cleaners, adhesives, paints, inks, detergents, dyes, colorants, auxiliaries, finishing agents used for wet processing, maintenance, waste water treatment, sanitation and pest control. There should be no intentional use of the MRSL listed substances in facilities.

Note: The MRSL does not replace applicable national environmental or workplace safety restrictions. Worker exposure to the listed and other hazardous substances must not exceed

occupational exposure limits and chemical formulations must comply with all applicable legal restriction, including any subsequent restrictions that establish stricter limits. The MRSL does not replace legal restrictions on hazardous substances in finished products (RSL requirements).

Definitions

Chemical Substance

means a chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition.

Commerical Chemical Product

is a proprietary blend of several chemical substances or a reaction product used to create a 'trade name' or 'functional' product that is available for purchase from a chemical supplier. Note this document will not list commercial chemical products.

CAS

Chemical Abstract Service index number

is a link to a wealth of information about a specific chemical substance, is a unique numeric identifier, designates only one substance, has no chemical significance. It includes up to 9 digits which are separated into 3 groups by hyphens. The first part of the number, starting from the left, has up to 6 digits; the second part has 2 digits and the final part consists of a single check digit.

Usage Ban

means a chemical product used for the manufacturing of articles (e.g.) must not intentionally contain these substances or substance groups.

MRSL Creation Process

The MRSL includes relevant substances from the original 11 priority chemical groups along with additional substances discussed with qualified experts from the Zero Discharge of Hazardous Chemicals Technical Advisory Committee (ZDHC TAC). Several of the listed substances are regulated in finished products and have been successfully restricted for years.

MRSL Instructions

Raw Material and Finished Product Supplier Guidance

Substances are banned from intentional use in facilities that process raw materials and manufacture finished products. Please refer to G-Star's Restricted Substance List (RSL) for individual requirements.

Chemical Supplier Formulation Limit

Substances are restricted to concentration limits in chemical formulations commercially available from chemical suppliers. These limits ban intentional use while allowing for reasonable expected manufacturing impurities that should be consistently achievable by responsible chemical manufacturers.

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			Raw Material and	Chemical Supplier					e		excl.
	SUBSTANCE	CAS Number	Finished Product Supplier Guidance	Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	Miii	Printer	CMT Finish	Trims (excl. metal trims)
	PHTHALATES										
	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7									
	Dibutyl phthalate (DBP)	84-74-2									
	Butylbenzyl phthalate (BBP)	85-68-7									
	Di-"isononyl" phthalate (DINP)	28553-12-0 and 68515-48-0									
	Di-"isodecyl phthalate (DIDP)	26761-40-0 and 68515-49-1					Fators of outside the Paracid or Websterland				
	Di-n-octyl phthalate (DNOP)	117-84-0		sum of all phthalates 250 ppm	Declaration needed from chemical supplier/raw material supplier		Esters of orth-phthalic acid or "phthalates" are a class of organic compounds commonly added to plastics to increase flexibility. They are				
a e	Di-isobutyl phthalate (DIBP)	84-69-5					sometimes used to facilitate molding of plastic by decreasing its melting temperature.				
Discharç	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP)	68515-42-4	Usage Ban for every single substance			GC-MS	Phthalates can be found in:	Х	Х	Х	X
Zero	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)	71888-89-6	single substance				Flexible Plastic components (e.g. PVC) Print pastes Adhesives Plastic buttons Plastic sleevings Coatings				
	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0									
	Di-iso-pentyl phthalate (DIPP)	605-50-5					3				
	n-Pentyl-isopentyl phthalate	776297-69-9									
	Di-n-pentyl phthalate (DnPP)	131-18-0									
	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8									
	Di-n-hexyl phthalate (DHP)	84-75-3									
	Dimethyl phthalate (DMP)	131-11-3									
	FLAME RETARDENTS										
	Tris-(2,3-dibromopropyl)- phosphate (TRIS)	126-72-7		5ppm							
	Tris - (aziridinyl) - phosphineoxide (TEPA)	5455-55-1		5ppm							
	Polybromobiphenyls (PBB)	59536-65-1		5ppm							
e d	Hexabromocyclododecane (HBCDD)	25637-99-4		5ppm							
charç	Octabromodiphenylether (OctaBDE)	32536-52-0		5ppm	Declaration needed from chemical		Flame retardant chemicals potentially used in				
ro Discharç	Tris-(2-chloroethyl)-phosphate (TCEP)	115-96-8	Usage Ban	5ppm	supplier/raw material supplier	GC-MS	clothing and tent fabric (PU clothings) to meet safety standards.	Х	X	Х	X
Zero	Pentabromodiphenyl ether (PentaBDE)	32534-81-9		5ppm	- 5pp						
	Bis(2,3-dibromopropyl) phosphate (BBP)	5412-25-9	5pp	5ppm							
	Bis(2,3-dibromopropylether) of tetrabromobisphenol (BDBPT)	21850-44-2		5ppm							
	Decabromodiphenyl Ether (DecaBDE)	1163-19-5		5ppm							

	SUBSTANCE	CAS Number	Raw Material and Finished Product Supplier Guidance	Chemical Supplier Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	Miii	Printer	CMT	Finish Trims (excl.
	AZO DYES WHICH BY REDUCTIVE CLEAVAGE MA	AY RELEASE ONE OR MO	RE ARYLAMINES								
	Biphenyl-4-ylamin, 4-aminobiphenyl xenylamine	92-67-1				200ppm					
	Benzidine	92-87-5				200ppm					
	4-chloro-o-toluidine	95-69-2				200ppm					
	2-naphtylamine	91-59-8				200ppm					
	o-aminoazotoluene, 4-amino-2',3-dimethylazobenzene 4-o-tolylazo-otoluidine	97-56-3				200ppm					
	5-nitro-o-toluidine	99-55-8				200ppm					
	4-chloroaniline	106-47-8				200ppm	Azo dyes and pigments are colorants that incorporate one or several azo groups (-N=N-) bound with aromatic compounds. Thousands of azo dyes exist, but only those which degrade to form listed amines are restricted. Azo dyes are used in dyed fabric or leather.				
	4-methoxy-m-phenylenediamine	615-05-4				200ppm					
	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane	101-77-9				200ppm					
	"3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1				200ppm					
Discharge	3,3-dimethoxybenzidine o-dianisidine	119-90-4		Declaration needed		200ppm					
Disc	3,3-dimethylbenzidine, 4,4'-bi-o-toluidine	119-93-7	Usage Ban	from chemical supplier/raw material	LC, GC	200ppm		Χ	Х		X X
Zero	4,4'-methylenedi-o-toluidine	838-88-0		supplier		200ppm					
	6-methoxy-m-toluidine p-cresidine	120-71-8				200ppm					
	4,4'-metylene-bis-(2-chloro-aniline) 2,2'-dichloro-4,4'-ethylenedianiline	101-14-4				200ppm					
	4,4'-oxydianiline	101-80-4				200ppm					
	4,4'-thiodianiline	139-65-1				200ppm					
	o-toluidine, 2-aminotoluene	95-53-4				200ppm					
	4-methyl-m-phenylenediamine	95-80-7				200ppm					
	2,4,5-trimethylaniline	137-17-7				200ppm					
	o-anisidine (2-methoxyanilin)	90-04-0				200ppm					
	4-amino azobenzene	60-09-3				200ppm					
	2,4-xylidine	95-68-1				200ppm					
	2,6-xylidine	87-62-7				200ppm					

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	SUBSTANCE	CAS Number	Raw Material and Finished Product Supplier Guidance	Chemical Supplier Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	M	Printer	CMT	Finish	Trims (excl. metal trims)
	ORGANOTIN COMPOUNDS											
	Dioctyltin (DOT) + compounds	1002-53-5		20ppm			Organotins are a class of chemicals combining tin and organics such as butyl and phenyl					
Zero Discharge	Triphenyltin (TPhT)) + compounds	56573-85-4	Usage Ban	5ppm	Declaration needed from chemical	GC-MS, LRMS	groups. Organotins are predominantly found in the environment as antifoulants in marine paints, but they can also be used as biocides (e.g., antibacterials), catalysts in plastic	Х	X		Х	
Zero Di	Dibutyltin (DBT)) + compounds	668-34-8	Osage Ban	5ppm	supplier/raw material supplier		and glue productions, and heat stabilizers in plastics/rubber. In textiles and apparel, organotins may be associated with textiles	,	,		,	
	Tributyltin (TBT) + compounds	15231-44-4		5ppm			plastics/rubber, inks, paints, metallic glitter, and heat transfer material.					
	CHLOROBENZENES AND CHLOROTOLUENES											
	Dichlorobenzenes *	95-50-1, 541-73-1, 106-47-7		1000ppm		GC-MS	Chlorobenzenes (Chlorinated aromatic hydrocarbons) are used as carriers in the					
	Trichlorobenzenes *	87-61-6, 120-82-1, 108-70-3		10ppm								
	Tetrachlorobenzenes	17700-09-3		10ppm								
	Pentachlorobenzenes	608-93-5		10ppm								
Zero Discharge	Hexachlorobenzene	118-74-1	Usage Ban	10ppm	Declaration needed from chemical			Y	Y	Х	Y	X
Zero Di	Chlorotoluenes	95-49-8	Osage Dall	10ppm	supplier/raw material supplier	GO-INIO	dyeing process of polyester or wool/polyester fibers. They can also be used as solvents.	^	^	^	^	^
	Dichlorotoluenes *	95-73-8, 118-69-4, 95-75-0		10ppm								
	Trichlorotoluenes *	98-07-7,2077-46-5, 6639-30-1	10	10ppm								
	Tetrachlorotoluenes *	5216-25-1, 81-19-6, 134-25-8		10ppm								
	Pentachlorotoluenes *	877-11-2, 13014-24-9		10ppm								

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	SUBSTANCE	CAS Number	Raw Material and Finished Product Supplier Guidance	Chemical Supplier Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	Mill	Printer	CMT	Finish	Trims (excl. metal trims)
	CHLORINATED SOLVENTS											
	1,2,3-Trichloropropane	96-18-4		5ppm								
	1,2-Dichloroethane	107-06-2		5ppm								
	Pentachloroethane	76-01-7		5ppm	Declaration needed from chemical supplier/raw material supplier							
	Chloroform	67-66-3		5ppm								
narge	Trichloroethane	79-00-5		5ppm		GC-MS	In apparel and footwear, solvents are used					
Zero Discharge	1,1,1,2-Tetrachloroethane	630-20-6	Usage Ban	5ppm			as finishing/Cleaning and printing agents, for dissolving and diluting fats, oils and adhesives (e.g., in degreasing or cleaning operations).	Х	Χ	Χ	Х	Х
Zero	1,1-Dichloroethylene	75-35-4		5ppm								
	1,1,1-Trichloroethane	71-55-6		5ppm								
	Carbon Tetra Chloride	56-23-5		5ppm								
	Tetrachloroethylene	127-18-4		5ppm								
	Trichloroethylene	79-01-6		5ppm								
	CHLOROPHENOLS											
ag	Pentachlorophenol (PCP)	87-86-5					Chlorophenols are polychlorinated compounds					
Zero Discharge	2,3,5,6 - Tetrachlorophenol (TeCP)	935-95-5	Hanna Ban	Sum of all 20ppm	Declaration needed from chemical	GC-MS	used as preservatives or pesticides. Pentachlorphenol (PCP) and Tetrachlorphenol (TeCP) are sometimes used to prevent mould	Х			Х	
ro Di	2,3,4,6 - Tetrachlorphenol (TeCP)	58-90-2	Usage Ban	Sum of all 20ppm	supplier/raw material supplier	GC-MS	and kill insects when growing cotton and when storing/transporting fabrics. PCP/TeCP can	^			^	
Ze	2,3,4,5 - Tetrachlorphenol (TeCP)	4901-59-3					also be used as a preservative in print pastes.					
	CHLORINATED PARAFFINS											
ero harge	Short-chain chlorinated paraffins (SCCP)	85535-84-8	Usage Ban	50ppm	Declaration needed from chemical		SCCP's: used as flame retardants, in plasticizers, paints and adhesives and for fat	Х	Y		Х	X
Zero Discharge	Medium-chain chlorinated paraffins (MCCP)	85535-85-9		50ppm	supplier/raw material supplier		liquoring of leather. SCCP's may cause long- term adverse effects in the aquatic environment.	^	,		^	,

	SUBSTANCE	CAS Number	Raw Material and Finished Product Supplier Guidance	Chemical Supplier Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	Mill	Printer	CMT	Finish	Trims (excl. metal trims)
	HEAVY METALS, EXTRACTABLE											
	Arsenic (As)	7440-38-2		50ppm			Arsenic and its compounds can be used in some preservatives, pesticides and defoliants for cotton. It is also associated with synthetic fibers, accessories for textiles and clothing, paints, inks, trims, plastics, and metal components.					
	Cadmium (Cd)	7440-43-9		20ppm/50ppm for pigments		ICP-OES, AAS	Cadmium compounds are found in or used as:Pigments (particularly red, orange, yellow, and green), Stabilizer for PVC plastic, Fertilizers, Biocides, Alloys for plating of other.					
e B.	Chromium (Cr VI)	7440-47-3		1ppm	Declaration needed from chemical supplier/raw material supplier		Chromium is used in leather tanning and can be oxidised into Cr6+.		x			
Zero Discharge	Lead (Pb)	7439-92-1	Usage Ban	50ppm			In apparel and footwear, lead may be associated with plastics, paints, inks, pigments, surface coatings and metal components.	х			Х	X
Ze	Mercury (Hg)	7439-97-6		2ppm/25ppm for pigments			Mercury compounds can be present in pesticides and can be found as contamination in caustic soda (NaOH). Mercury compounds can be used in paints (e.g. surface paints on zippers and buttons).					
	Nickel (Ni)	7440-020		250ppm			Nickel metal is mainly used for plating of alloys, improving the corrosion resistance in alloys, improving the hardness of alloys and is a key element in the production of stainless steel. Certain dyestuffs contain complexbound Nickel. Both Nickel metal and Nickel compounds can occur as an impurities in pigments and alloys.					
	ALKYLPHENOLS (AP) AND ALKYPHENOL ETHOXY	(LATES (APEO)										
	Nonylphenols (NP)	25154-52-3 104-40-5 11066-49-2 84852-15-3		250ppm								
narge	Octylphenols (OP)	27193-28-8 140-66-9 1806-26-4		250ppm	Declaration needed		APEOs can be used as or found in: Detergents, Scouring agents, Wetting agents, Softeners, Emulsifier/dispersing agents for dyes and					
Zero Discharge	Nonylphenolethoxylates (NPEO)	9016-45-9 26027-38-3 37205-87-1 68412-54-4 127087-87-0	Usage Ban	500ppm	from chemical supplier/raw material supplier	LC MS GC MS	prints, Impregnating agents, Degreasing agents for leather, Leather Finishing, Degumning for silk production, Dyes and pigment preparations, Polyester padding and Down/feather fillings.	X	X	Х	Х	X
	Octylphenolsethoxylates (OPEO)	9063-89-2 9036-19-5 38987-90-6 9002-93-1	5	500ppm								

	SUBSTANCE	CAS Number	Raw Material and Finished Product Supplier Guidance	Chemical Supplier Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	Mill	Printer	CMT	Finish Trims (excl. metal trims)
	PERFLUORINATED CHEMICALS										
	Perfluoroctanesulfonates (PFOS)	1763-23-1		1ppm			PFOS is sometimes used as an ingredient in stain repellent finishes. PFOS is used as a binder in non-woven fabrics to enhance dyeing, wetting agents to improve coverage and penetration of substances, achieve finish on-yarn uniformity, and water resistance, oil				
arge	Perfluoroctane acids (PFOA)	335-67-1		2ppm	Declaration needed		resistant coatings on textiles, leather, and other materials. Perfluorooctanoic Acid is used in the production of fluoropolymers which are used as impregnating agents on textiles (e.g., water repellents on jackets).				
Discharge	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	Usage Ban	ND	from chemical supplier/raw material	LC-MS		Х			x x
Zero	1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9		ND	supplier						
	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-05		ND			Perfluorinated chemicals (PFC's) can be used				
	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2		ND			as impregnation agents and cleaning products. PFC's are persistent, bioaccumulative and poisonous and possibly carcinogenic.				
	1H,1H,2H,2H-Perfluoro-1oktanol (6:2 FTOH)	647-42-7	ND	ND			poisonous and possibly carolinggeme.				
	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7		ND							
,	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1		ND							

	SUBSTANCE	CAS Number	Raw Material and Finished Product Supplier Guidance	Chemical Supplier Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	Mill	Printer	CMT	Trims (excl. metal trims)
	POLYCYCLIC AROMATIC HYDROCARBONS (PAH)	S)									
	Benzo{a}pyrene	50-32-8		20ppm							
	Benzo(e)pyrene	192-97-2									
	Benzo(a)anthracene	56-55-3		sum of all PAH =	Declaration needed from chemical supplier/raw material supplier						
	Chrysene	218-01-9				GC-MS					
	Benzo(b)fluoroanthene	205-99-2					Polycyclic Aromatic Hydrocarbons (PAHs) are natural components of crude oil and they are a common residue from oil refining. PAHs have a characteristic smell similar to the smell of car tires or asphalt. Oil residues containing PAHs are added in rubber and plastics as a softener or extender. Therefore, PAHs are risky in rubber, plastics, lacquers and coatings. PAHs are often found in the outsoles of footwear and in printing pastes of screen prints. PAHs can be present as impurities in Carbon Black. Clean				
	Benzo(j)fluoroanthene	205-82-3									
	Benzo(k)fluoroanthene	207-08-9									
ge	Dibenzo(a,h)anthracene	53-70-3									
Zero Discharge	Acenaphthene	83-32-9						~	~	v v	X
aro Di	Acenaphthylene	208-96-8	Usage Ban					^	^	^ ^	^
Ze	Antracene	120-12-7									
	Benzo(ghi)perylene	191-24-2					mineral oils should be used in the rubber to avoid PAHs.				
	Fluoranthene	206-44-0									
	Fluorene	86-73-7									
	Indeno(1,2,3-cd)pyrene	193-39-5									
	Naphthalene	91-20-3									
	Phenanthrene	85-01-8									
	Pyrene	129-00-0									

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	SUBSTANCE	CAS Number	Raw Material and Finished Product Supplier Guidance	Chemical Supplier Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	Mill	Printer	CMT	Finish Trims (excl. metal trims)
	ALLERGENIC DISPERSE DYES										
	C.I. Disperse Blue 1	2475-45-8		250ppm							
	C.I. Disperse Yellow 3	2832-40-8		250ppm							
	C.I. Disperse Blue 106	12223-01-7		250ppm							
	C.I. Disperse Blue 124	61951-51-7		250ppm							
	C.I. Disperse Blue 35	12222-75-2		250ppm							
	C.I. Disperse Orange 3	730-40-5		250ppm		LC					
	C.I. Disperse Orange 37/59/76	12223-33-5 / 13301-61-6		250ppm			Disperse dyes are a class of water-insoluble dyes that penetrate the fiber system of synthetic or manufacted fibers and are held in place by phyiscal forces without performing chemical bonds. Disperse Dyes are used in synthetic fiber (e.g. polyester, acetate, polyamide). Restricted disperse dyes are suspected of causing allergic reactions and should no longer be used for dyeing of textiles.				
	C.I. Disperse Red 1	2872-52-8		250ppm							
	C.I. Disperse Blue 3	2475-46-9		250ppm	Declaration needed from chemical supplier/raw material supplier						
LLY	C.I. Disperse Blue 7	3179-90-6		250ppm							
ADDITIONALLY	C.I. Disperse Blue 26	3860-63-7	Usage Ban	250ppm				Х		Х	Х
TIQQ	C.I. Disperse Blue 102	12222-97-8		250ppm							
∢	C.I. Disperse Brown 1	23355-64-8		250ppm							
	C.I. Disperse Orange 1	2581-69-3		250ppm							
	C.I. Disperse Red 11	2872-48-2		250ppm							
	C.I. Disperse Red 17	3179-89-3		250ppm							
	C.I. Disperse Yellow 1	119-15-3		250ppm							
	C.I. Disperse Yellow 9	6373-73-5		250ppm							
	C.I. Disperse Yellow 39	12236-29-2	25	250ppm							
	C.I. Disperse Yellow 49	54824-37-2		250ppm							
	C.I. Disperse Orange 149	85136-74-9		250ppm							
	C.I. Disperse Yellow 23	6250-23-3		250ppm							

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	SUBSTANCE	CAS Number	Raw Material and Finished Product Supplier Guidance	Chemical Supplier Comercial Formulation Limit	Guidelines	General Techniques for Analysing	Common Potential Use	Miii	Printer	CMT	Finish	Trims (excl. metal trims)
	CARCINOGENIC DYES											
	C.I. Acid Red 26	3761-53-3		250ppm								
	C.I. Basic Red 9	569-61-9		250ppm								
	C.I. Direct Black 38	1937-37-7		250ppm								
ADDITIONALLY	C.I. Direct Blue 6	2602-46-2		250ppm	Declaration needed from chemical supplier/raw material supplier							
NOIE	C.I. Direct Red 28	573-58-0	Usage Ban	250ppm		LC	Most of these substances are regulated and should no longer be used for dyeing of textiles	Х		Х		Х
ADD	C.I. Disperse Blue 1	2475-45-8		250ppm								
	C.I. Disperse Yellow 3	2832-40-8		250ppm								
	C.I. Basic Violet 14	632-99-5		250ppm								
	C.I. Disperse orange 11	82-28-0		250ppm								
	OTHER SOLVENTS/VOLATILE ORGANIC COMPOU	UNDS (VOC)										
	Xylene	1330-20-7		500ppm								
ADDITIONALLY	o-Xylene	95-48-7		500ppm	Declaration needed		These volatile organic compounds should not be used in textile auxiliary chemical preparations. They are associated with					
MOITI	p-Xylene	106-44-5	Usage Ban	500ppm	from chemical supplier/raw material	GC-MS	solvent-based porcesses like solvent-based PU coatings and glues/adhesives. They should	Х	Χ	Χ	Х	Χ
ADD	m-Xylene	108-39-4		500ppm	supplier		not be used for any kind of facility cleaning or post-cleaning.					
	Benzene	71-43-2		50ppm								
	POLYVINYLCHLORIDE (PVC)											
ADDITIONALLY	Polyvinylchloride	9002-86-2	Usage Ban	ND	Declaration needed from chemical supplier/raw material supplier	ATR-FT IR	TThe use of PVC is voluntarily restricted because it is claimed that dioxins are produced as a byproduct of vinyl chloride manufacture and from burning of waste PVC.	х	x	Х	x	X

LC - Liquid Chromatography

MS - Mass spectrometry

GC - Gas Chromatography

ICP-OES - Inductively coupled plasma - optical emission spectrometry

ATR-FT IR - Attenuated total reflection Infrared spectroscopy

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