



RESTRICTIVE SUBSTANCES GUIDE



Instituto Brasileiro de Tecnologia do Couro, Calçado e Artefatos

Rua Araxá, 750 - Bairro Ideal - Novo Hamburgo, RS
CEP 93334-000 - CNPJ 87.190.161/0001-73

Phone: +55 51 3553.1000

ibtec@ibtec.org.br - laboratorio@ibtec.org.br

www.ibtec.org.br

INDEX

ATITUDE
100%
QUALIDADE



INTRODUCTION	8
MISSION, VISION AND VALUES.....	9
NEWSLETTER	10
RESTRICTIVE SUBSTANCES' SUMARY	11
TABLE OF CARCINOGENIC AND MUTAGENIC SUBSTANCES	13
ADHESIVE SPECIFICATIONS	14
RUBBER SPECIFICATIONS	18
CELLULOSE SPECIFICATIONS	25
ELETRICAL COMPONENTS SPECIFICATIONS	28
LEATHER SPECIFICATIONS	30
PACKING AND PACKING WASTE SPECIFICATIONS	43
METALS SPECIFICATIONS	46
PLASTIC SPECIFICATIONS	49
MOISTURE ABSORPTION SACHETS SPECIFICATIONS	57
FABRIC AND NON FABRIC SPECIFICATIONS	59
PAINTS AND LACQUERS SPECIFICATIONS	72
PLASTISOL SPECIFICATIONS	79
PIGMENTS SPECIFICATIONS	85

ATITUDE
100%
QUALIDADE



RESTRICTIVE SUBSTANCES GUIDE

Issue: July/2017

Review: July/2017

Number:

References: NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.

Goal: Standardization of specifications and analysis for testing of restrictive substances.

Search Bases:

Data from REACH, AAFA and Prop 65 were considered in the review of this document.

Scope:

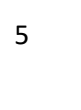
Corporate procedures related to:	Human Resources	Finances	Supply and Logistics	Foreign trade	Communication and media	Auditing	Health and safety	Innovation and development laboratory X	Quality X
Local Internal procedures:	Head Office X	Factory 22 X	Factory 33 X	Factory 55 X	Factory 266 X				

ATITUDE
100%
QUALIDADE



ALTERATIONS

- Included information from research sources: AAFA, REACH and PROP. 65
- Updating of the reference standard (ABNT NBR ISO 9001: 2015)
- Item approvals: held Erica and Maria de Fatima; Excluded.
- Updates in the item elaboration: inclusion of analyst.
- Date update (page 10).
- Exclusion of column decorations (pages 11 and 12).
- Adhesives: Change in phthalates (junctions, specifications, countries, exclusion of DIBP and inclusion of the following phthalates: DnHP; Diphenylphthalate; 1,2-benzenedicarboxylic acid, diethyl ester, branched and linear; 1,2-benzenedicarboxylic acid, di-C6 -10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, hexyl and octyl diesters with $\geq 0.3\%$ diethyl phthalate); VOCs: changes in the limits of toluene and trichlorobenzene and inclusion of derivatives (chlorotoluenes, chlorobenzenes), inclusion of test standard.
- Rubber: new limits for organotins and exclusion of MBT, MOT / NOT, TeBT, inclusion of test standards and change in comments; Short-chain chlorinated paraffins (C10-C13): change in specification, inclusion of test standard, change in regulations and comments. Medium-chain chlorinated paraffins (C14-C17): inclusion of information in the specification, CAS number and test standard. Nitrosamines: inclusion of Chinese regulation, inclusion of comment and test standard, change in specification. PFOS / PFOAS: inclusion of CAS numbers. Arsenic and compounds: inclusion of CAS numbers and specification. Total lead: inclusion of specification, observation and test standard. Total cadmium: inclusion of specification and norm. Flame retardants: inclusion of legislation and countries in the specification; PAHs inclusion.
- Pulp: new limits for organotin and exclusion of MBT, MOT / NOT, TeBT, inclusion of test standards and change in comments; Inclusion of alkyl phenols and their ethoxylates; Inclusion of chlorinated phenols; Inclusion of total lead and total cadmium.
- Electrical components: change in heavy metals; Withdrawal of organotin; Removal of arsenic; Inclusion of substances: PBB and PBDE; Inclusion of phthalates.
- Leather: alteration in the specification of azo dyes; Chlorinated phenols: change of specification and inclusion of CAS numbers. Chromium VI: change of CAS number and inclusion of specification for China. Alkylphenols: inclusion of CAS numbers, change in specifications, inclusion of test standards. Organotin: new limits and exclusion of MBT, MOT / NOT, TeBT, inclusion of test standards and change in comments. Formaldehyde: exclusion of DIN standard, change in specification and comments. Total lead: change in specification, inclusion in reason of restriction and test standard. Inclusion of lead release rate. Total cadmium: inclusion of specification, reason for restriction, standard of test and observation. Inclusion of total arsenic. Chloroalkanes C10-C13: change in specification, comments and test standard. C14 -C17 chloroalkanes: inclusion of CAS number, restriction ratio; Change in the test standard. PFOS / PFOA: inclusion of CAS numbers and observation. Phthalates: various alterations and inclusion of information of when applicable the test in this type of material. Pesticides: inclusion of substances and changes in specifications.



- Packaging: heavy metals: change of solubles for totals, change of CAS number chrome VI and inclusion of standard; Withdrawal of PFOS and PFOA; Chlorinated phenols: exclusion of TCP and TeCP, change in specification and inclusion of standard; Withdrawal of orthophenylphenol and pesticides; Organometallic: new limits and exclusion of MBT, MOT / NOT, TeBT, inclusion of test standards and change in comments; Nonylphenols: change to alkylphenols, change in limits and in the test standard.
- Metal: Total lead: various changes; Inclusion of lead release rate; Total cadmium: various changes; Inclusion of total Arsenic; Nickel: inclusion of reason for restriction and changes in standards. Withdrawal of PFOS and PFOA.
- Embellishments / accessories: withdrawal of category.
- Plastics: Cloroalkanes C10-C13: change in specification, comments and test standard. C14 -C17 chloroalkanes: inclusion of CAS number, restriction ratio; Change in the test standard. Soluble heavy metals: changes in countries and inclusion of standards. Total lead: change in specification, inclusion in reason of restriction and test standard. Inclusion of lead release rate. Total cadmium: inclusion of specification, reason for restriction, standard of test and observation. Inclusion of total arsenic. Inclusion of chromium VI. Inclusion of Restricted Soluble Metals in China. Phthalates: various changes. PFOS / PFOA: inclusion of CAS numbers and observation. Nitrosamines: various changes. Organoestanhos: new limits and exclusion of MBT, MOT / NOT, TeBT, inclusion of test standards and change in comments. Arsenic and compounds: inclusion of CAS numbers and specification. Flame retardants: inclusion of legislation and countries in the specification; PAHs inclusion.
- Moisture absorption sachet: dimethyl fumarate: change in specification, reason for restriction, test standard and comment.
- Fabric and nonwoven: azo dyes: change specification, reason for restriction, method and comment; Allergenic dyes: inclusion of CAS, alteration of specification, inclusion of analysis method. Carcinogenic dyes: inclusion of CAS, alteration of specification, inclusion of test method. Blue dyes: inclusion of method of analysis and change in specification. Chlorinated phenols: various changes. Alkylphenols: change in limits and in the test standard. Arsenic and compounds: inclusion of CAS numbers and specification. Organotin: various changes. Formaldehyde: various changes. Soluble heavy metals: change in specification, inclusion of metals and localities, changes in the ratio for restriction, test method and comments. Total lead: change in specification, inclusion in reason of restriction and test standard. Inclusion of lead release rate. Total cadmium: inclusion of specification, reason for restriction, standard of test and observation. Inclusion of total arsenic. PFOS / PFOA: inclusion of CAS numbers and observation. Pesticides: inclusion of substances and changes in specifications. Phthalates: various changes; PAHs inclusion.
- Paints and lacquers: azo dyes: change specification, reason for restriction, method and comment. Soluble metals: changes in the ratio for restriction and test method. Total lead: change in specification, inclusion in reason of restriction and test standard. Inclusion of lead release rate. Total cadmium: inclusion of specification, reason for restriction, standard of test and observation. Organotin: various changes. Inclusion of phthalates. VOCs: changes in the limits of toluene and trichlorobenzene and inclusion of derivatives (chlorotoluenes, chlorobenzenes), inclusion of test standard.
- Plastisol: Cloroalkanes C10-C13: change in specification, comments and test standard. C14 -C17 chloroalkanes: inclusion of CAS number, restriction ratio; Change in the test standard. Phthalates: various changes. Total lead: change in specification, inclusion in reason of restriction and test standard. Inclusion of lead release rate. Total cadmium: inclusion of specification, reason for restriction, standard of test and observation. Nitrosamines: various changes. Organotin: various changes. Azo dyes: change specification, reason for restriction, method and comment; PAHs inclusion.
- Pigments: Phthalates: various changes and inclusion of comments. Total lead: change in specification, inclusion in reason of restriction and test standard. Inclusion of lead release rate. Total cadmium: inclusion of specification, reason for restriction, standard of test and observation.

ATITUDE
100%
QUALIDADE



APROVVALS

Name	Job Title:	Id:	When:
Erica Nunes Santos Lima	Product inovations manager – Sandals sector	ELIMA	July
Maria de Fátima A.Farias	Laboratory innovations manager – Sandals sector	FATIMAF	July

ELABORATION

Name	Office	Id	When
Mônica Tatiana Barth Mombach	Chemical / consultancy - IBTeC	monica@ibtec.org.br	July
Valdir Soldi	Vice president - IBTeC	soldi@ibtec.org.br	July
Edson Gomes de Oliveira Silva	Analyst, Innovation Lab – UN Sandals - Alpargatas	edgomes@alpargatas.com.br	July



INTRODUCTION

This guide of restrictive substances was developed by Alpargatas S/A with the objective of notify our suppliers about the laws and regulations that restrict or prohibit certain chemical substances used at our products, for domestic or/and external Market. The manual will be constantly updated, according to the national and international laws alterations.

It is the responsibility of our suppliers ensure that the materials provided to Alpargatas S/A are in full compliance with current regulations.

We will be available to assist in what's possible for the growth of our suppliers, ensuring the quality o four products.

Our effort is to make use the best technology with the lowest impact on the environment.

ATITUDE
100%
QUALIDADE





VISION

To be a global company of desired brands in the segments of footwear, apparel and accessories.

MISSION

Win over consumers through brands and differentiated products with high perceived value, creating value for shareholders, employees, suppliers and customers, acting with social and environmental responsibility

VALUES

Commitment
Consumer Satisfaction
Respect For People
Ethics
Entrepreneurship



NEWSLETTER

The ALPARGATAS S.A., its filias, subsidiaries and associates (“Alpargatas”), notifies all their suppliers that will not receive any type of product, feedstock, package, component or others (“Products” or “Product”) that contains any kind of restrictive substances in its composition.

Therefore, from this date, the Alpargatas notifies its suppliers that all their products must be accompanied by the respective declaration of no restrictive substance.

Also, if detected presence of any restrictive substance, especially heavy metals, Alpargatas will promote the immediate return of the products, with its suspension of payment or, if payment has already occurred, with its immediate application for compensation or refund.

Finally, for the specific cases in which national and international law allow minimum concentration indices, there will be level of tolerance, provided that the presence of restrictive substance in the product does not exceed the permitted level, well as that the product will must be accompanied by a report issued by accredited laboratory.

In case that the supply of products occurs at odds with the present information, the supplier may be liable for all losses and damages suffered by Alpargatas.

Campina Grande, July, 3, 2017.

ALPARGATAS S.A.

Received by: _____

Corporate Name: _____

At ____/____/____



Restricted Substance	Reason for restriction	Adhesive	Rubber	Cellulose	Electrical component	Leather	Package	Metals	Plastic	Fabric (Natural)	Fabric (Synthetic)	Paints	Sachets of moisture absorption	Plastisol	Pigments
Chlorinated phenols	Carcinogenic and long-term exposure may cause damage to reproduction, liver and kidneys.			*		*	*			*	*				
Orthophenylphenol	May cause eye and skin irritation					*									
Formaldehyde	Volatile, toxic and carcinogenic					*	*			*	*				
Phthalates	Carcinogenic, toxic and adverse hormonal effects	*	*		*	*			*	*	*	*		*	*
Heavy metals (Leachable)	Toxic and bioaccumulative, carcinogenic		*	*		*		*	*	*	*	*		*	*
Nickel	Metal toxic, allergenic and suspected to be carcinogenic							*							
Nitrosamines	Carcinogenic, toxic and adverse hormonal effects		*						*					*	
Organotin	Toxic and polluting the aquatic environment		*	*		*	*		*	*	*	*		*	
Pesticides	Adverse effects on the nervous and reproductive system and many are carcinogenic					*D				*D					
PFOS/PFOA	Persistent, bioaccumulative and toxic to mammals		*			*			*	*	*				
Flame retardants	Cancer related, reproducible problems and brain development.		*						*						
pH of aqueous extract	High degree of acidity causes skin degradation and irritation on human skin					*				*	*				



Arsenic and arsenic compounds	Carcinogenic		*						*	*	*				
Heavy metals (Total)	Toxic and bio-accumulative, can cause cancer.		*	*	*	*	*	*	*	*	*	*		*	*
Chloralkanes	Very persistent environmental pollutant		*			*			*					*	
Nonylphenol compounds and its ethoxylates	Environmental problems and adverse hormonal effects			*		*	*			*	*				
Volatile organic compounds (VOC)	Volatile, toxic, irritants and can cause cancer.	*										*			
Azo dyes	Carcinogenic amines					*				*	*	*		*	
Blue dyes	Very persistent environmental pollutant					*				*	*				
Disperse dyes (allergenic and carcinogenic)	Allergic potential to human skin					*				*	*				
Hexavalent chrome	Carcinogenic and can cause ulcers on skin.				*	*	*			*					
Dimetilfumarate	Dangerous, irritating												*		
PBB	Pollutant, persistent in the environment				*										
PBDE	Pollutant, persistent in the environment				*										
Polycyclic Aromatic Hydrocarbons (PAHs)	Allergic reactions		*						*	*	*			*	

Subtitle

*: Analysis required

*D: Declaration stating that the limits are suitable to the requirements

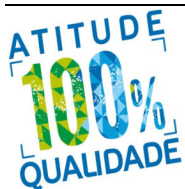


TABLE OF CARCINOGENIC AND MUTAGENIC SUBSTANCES

CARCINOGENIC SUBSTANCES	MUTAGENIC SUBSTANCES
Arsenic and arsenic compounds	Chlorinated phenols
Volatile Organic compounds	
Azo dyes	
Carcinogenic dyes	
Hexavalent chromium	Flame retardants
Chlorinated phenols	
Formaldehyde	
Phthalates	
Heavy metals	
Nickel	
Nitrosamines	Pesticides
Pesticides	
PFOS	
Flame retardants	

ATITUDE
100%
QUALIDADE



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

ADHESIVE SPECIFICATIONS

Included in this item all type of adhesive used in the construction of all the company's products, such as mounting adhesive, dubbing, sewing, among others.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



Restricted substances specifications in materials - Adhesives

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PHTHALATES		EU: DEHP+DBP+BBP: 0,1% DINP+DIDP+DNOP: 0,1%	Directive 2005/84/EC Directive 93/11/EEC Regulation EC 1907/2006 Annex XVII California: AB1108	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008	There is a market consensus pointing to a maximum of 500 ppm (0.05%) for each phthalate use in children's articles and a maximum of 1000 ppm the sum of all.
Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP)	117-81-7					
Di-n-butyl phthalate (DBP)	84-74-2	USA e Canada: each phthalate 0,1%	Denmark: Legal Order 786 Directive 67/548/EEC		BS EN 14372	
Butyl benzyl phthalate (BBP)	85-68-7	South Korea /	CNS 15503 (children's products)			
Diisodecyl phthalate (DIDP)	26761-40-0 and 68515-49-1	Denmark/ Turkey and Egypt: 0,1%	Notice of confirmation of self regulation No. 2007-34, issued by the Korean Agency for Technology and Standardization			
Diisononyl phthalate (DINP)	28553-12-0 and 68515-48-0	China: Footwear size ≤170mm and for children from 0-36 months: DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% Footwear size > 170mm and ≤250mm for children from 36 months to 14 years: DEHP, DBP, BBP: 0.1%	Improvement Action for Safety of Consumer Products: PL 110-787 Clause 1 of the Canadian Rules of Dangerous stuffs China: GB 30585			
Diethyl phthalate (DEP)	84-66-2	Taiwan:	CNS 15503 (children products)	Analysis required	CNS 15138	
Dimethyl phthalate (DMP)	131-11-3	0.1% sum of DMP and DEP				
Various phthalates, except: DEHP, DNOP, BBP, DBP, DINP, DIDP	---	Denmark: 0,05%	Statutory Order 855	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applied for children's articles for children from 0 to 3 years.



Restricted substances specifications in materials - Adhesives

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordanc e with	Recommended analysis method	Comments
1,2 - benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters (DHNUP)	68515-42-4	EU: 0,1% weight / weight per article (each)	European regulation REACH EC 1907/2006 List of candidates	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	
1,2-benzenedicarboxylic acid, di-C6-8-alkyl ester branched, C7-rich (DIHP)	71888-89-6	EU: 0,1% weight/ weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	
Bis (2-methoxyethyl) phthalate (DMEP)	117-82-8					
Diisopentyl phthalate (DIPP)	605-50-5					
N-pentyl-isopentyl phthalate (NPIPP)	776297-69-9					
1,2- Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	84777-06-0					
Di-n-exyl phthalate (DnHP / DHP)	84-75-3					
Diphenyl phthalate	131-18-0					
1,2-Benzenedicarboxylic acid. Diexyl ester, branched and linear	68515-50-4					
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, exil and octyl diesters with ≥0.3% diexyl phthalate	68515-51-5 e 68648-93-1					



Restricted substances' specifications in materials - Adhesives

Restricted substance		CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
VOLATILE ORGANIC COMPOUNDS (VOCS)	Toluene/ Clorotoluenes	108-88-3 95-73-8 118-69-4 95-49-8	EU: 1 ppm China: 20g/m ² USA: 1 ppm	Directive: 76/769/EEC Directive: 2005/59/EC	Analisis required	ISO 15680 GC/MS GB 21550 item 5.5 DIN 54232	
	Benzene/ Clorobenzenes	120-82-1 71-43-2 100-41-4/ 118-74-1 608-93-5/ 87-61-6 108-70-3 17700-09-3 95-50-1	EU: 1 ppm China: 20g/m ²	Safety Regulations for Children's Products of Washington GB 21550			
	Xylene (all isomers) o - Xylene m-Xylene P-xylene	1330-20-7 95-47-6 108-38-3 106-42-3	EU: 1 ppm China: 20g/m ²				



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

RUBBER SPECIFICATIONS

Included in this item are all rubber compositions used in shoe soles, welts, toe, among others.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – RUBBER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Organotin compounds		UE:	Directive 76/769/EC			
Tributyltin (TBT)	56573-85-4	TPHT / TBT / DBT / DOT / TcyHT / All organotin trisubstituted:	European REACH Regulation EC No. 1907/2006 Annex XVII	Analisis required	ISO 17353	In South Korea TBT is also regulated for children's clothing (less than 24 months) for bedding and products in direct contact with the skin; DBT is restricted to children's clothing (less than 36 months).
Triphenyltin (TPHT)	668-34-8				DIN 38407	
All Organotins trisubstituted	Vários	Maximum 0,1% weight of tin			ISO/TS 16179	
Dibutyltin (DBT)	1002-53-5	Canada: TBT: Prohibited	Japanese Law (Law No. 112)		SATRA TM 277	
Diocetyltn (DOT)	15231-44-4	South Korea: DBT: Maximum 1 ppm	Notice No. 2007-34 issued by the Korean Agency for Technology and Standardization		KS K 0737	
Tricichlohexanetin (TcyHT)	6056-50-4		Canada - Regulatory Prohibition of Certain Substances - SOR/2012-285			

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – RUBBER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
CHLORALKANES C10 - C13 (Short chain chlorinated paraffins)	85535-84-8	EU: 0,1% (1000 ppm)	Directive 2002/45/EC POPs regulation EC No. 850/2004 Annex I, amended by Regulation (EU) 2015/2030	Analisis required	DIN EN 12766-1 ISO 18219	REACH: Substance listed in SVHC. POPs: Articles should not contain short chain chlorinated paraffins above 0.15% by weight.
CHLORALKANES C14 - C17 (Medium chain chlorinated paraffins)	85535-85-9	EU: 0,1% (1000 ppm)	Directive 2002/45/EC	Analisis required	DIN EN 12766-1 ISO 18219	
PHTHALATES Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP) Di-n-butyl phthalate (DBP) Butyl benzyl phthalate (BBP) Diisodecyl phthalate (DIDP) Diisononyl phthalate (DINP) Di-n-octyl phthalate (DNOP)	117-81-7 84-74-2 85-68-7 26761-40-0 and 68515-49-1 28553-12-0 and 68515-48-0 117-84-0	EU: DEHP+DBP+BBP: 0,1% DINP+DIDP+DNOP: 0,1% USA e Canada: each phthalate 0,1% South Korea / Denmark/ Turkey and Egypt: 0,1% China: Footwear size ≤170mm and for children from 0-36 months: DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% Footwear size > 170mm and ≤250mm for children from 36 months to 14 years: DEHP, DBP, BBP: 0.1%	Directive 2005/84/EC Directive 93/11/EEC Regulation EC 1907/2006 Annex XVII California: AB1108 Denmark: Legal Order 786 Directive 67/548/EEC CNS 15503 (children's products) Notice of confirmation of self regulation No. 2007-34, issued by the Korean Agency for Technology and Standardization Improvement Action for Safety of Consumer Products: PL 110-787 Clause 1 of the Canadian Rules of Dangerous stuffs China: GB 30585	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	There is a market consensus pointing to a maximum of 500 ppm (0.05%) for each phthalate use in children's articles and a maximum of 1000 ppm the sum of all.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – RUBBER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Diethyl phthalate (DEP) Dimethyl phthalate (DMP)	84-66-2 131-11-3	Taiwan: 0.1% sum of DMP and DEP	CNS 15503 (children products)	Analisis required	CNS 15138	
Various phthalates, except: DEHP, DNOP, BBP, DBP, DINP, DIDP	---	Denmark: 0,05%	Statutory Order 855	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applied for children's articles for children from 0 to 3 years.
1,2 - benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters (DHNUP)	68515-42-4	EU: 0,1% weight / weight per article (each)	European regulation REACH EC 1907/2006 List of candidates	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	
1,2-benzenedicarboxylic acid, di-C6-8-alkyl ester branched, C7-rich (DIHP) Bis (2-methoxyethyl) phthalate (DMEP) Diisopentyl phthalate (DIPP) N-pentyl-isopentyl phthalate (NPIPP) 1,2- Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP) Di-n-exyl phthalate (DnHP / DHP) Diphenyl phthalate 1,2-Benzenedicarboxylic acid. Diexyl ester, branched and linear 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, exil and octyl diesters with ≥0.3% diexyl phthalate	71888-89-6 117-82-8 605-50-5 776297-69-9 84777-06-0 84-75-3 131-18-0 68515-50-4 68515-51-5 e 68648-93-1	EU: 0,1% weight/weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – RUBBER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
NITROSAMINES N-nitrosodimethylamine (NMDA) N-nitrosodimethylamine (NDEA) Nitrosodi N-propylamine (NDPA) N-nitrosodibutylamine (NDBA) N-nitrosopepidina (NPIP) N-Nitrosopyrrolidine (NPYR) N-nitrosomorpholine (NMOR) N-nitroso-N-methylaniline N-nitroso-N-ethylaniline	62-75-9 55-18-5 621-64-7 924-16-3 100-75-4 930-55-2 59-89-2 614-00-6 612-64-6	EU: 0,5 ppm China: not detected (detection limit 0.5 mg / kg)	Directive 76/769/EEC Directive 93/11/EEC European Eco-Label China: GB 25036-2010, GB 25038-2010, GB 30585-2014	Analisis required	BS EN 12868 GB/T 24153 DIN EN ISO 71-12	GB 30585-2014: Only applicable to rubber parts of infant shoes
PERFLUOROCTANE SULPHONATE (PFOS) PERFLUOROCTANE ACID (PFOA) AND ITS SALTS	2795-39-3 335-67-1/ 3825-26-1/ 335-95-5/ 2395-00-8/ 335-66-0 376-27-2/ 3108-24-5	EU / Norway / Egypt / Switzerland / Turkey: Maximum 0.1% (1000 ppm) Canada*: see comments.	Directive 2006/122/EC POPs regulation (EC) No 850/2004 Annex I	Analisis required	CEN/TS 15968	* The 1999 Law of Canada Environmental Protection Act (CEPA 1999), Registration SOR 2008/178 prohibits the manufacture, use, sale, offer for sale and import of PFOS and PFOS-containing products, but does not specify limits.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – RUBBER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Arsenic and arsenic compounds	15606-95-8/ 7778-39-4/ 7440-88-2/ 1327-53-3	EU: 1000ppm USA/Washington: Máximo 1 ppm	Directive 67/548/EEC Directive 2006/139/EC Directive 2002/95/EC Washington Children's Safe Product Act	Analysis required	ISO 17378-2	
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 90 ppm China: 100 ppm applies to children's footwear (≤14 years old)	Directive 88/378/EEC Directive 2001/95/EC USA: CPSC	Analysis required	ASTM 1645-1 CPSC-CH-E1002 CPSC-CH-E1003 DIN EN 16711-1 SATRA TM 428	USA/Illinois: 0 - 12 years: 100 ppm lead in substrate; 90 ppm lead in coating Above 12 years: maximum 600 ppm
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm Taiwan: Prohibited South Korea: 75 ppm China: 100 ppm applies to children's footwear (≤14 years old), size of the shoes < 250 mm	Directive 88/378/EEC Directive 2001/95/EC Taiwan: CNS 15290 (children products)	Analysis required	EN 1122 CNS 4797-2 QB/T 4340	
HEAVY METALS Soluble metals	7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	EU: Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	Directive 88/378/EEC Directive 2001/95/EC	Analysis required	EN 71-3 ISO 105/E04	



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – RUBBER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Flame retardants - PBBs - Tris (2,3-dibromopropyl) phosphate - Bis (2,3- dibromopropyl) phosphate - Tris (1-aziridiny)-phosphine oxide (TEPA) - TCEP - Penta BDE - Octa BDE - Deca BDE - TDCPP	59536-65-1 126-72-7 5412-25-9 545-55-1 115-96-8 32534-81-9 32536-52-0 1163-19-5 13674-87-8	EU, Turkey, Canada, USA, South Korea and Egypt: PBBs: prohibited EU, Turkey, Switzerland, Japan, USA, Egypt, South Korea: Tris (2,3-dibromopropyl) phosphate: prohibited Japan: Bis (2,3- dibromopropyl) phosphate: prohibited EU, Switzerland, Turkey, Japan, South Korea and Egypt: Tris (1-aziridiny)-phosphine oxide (TEPA): prohibited USA (New York), Canada, EU: TCEP: prohibited EU, USA, Switzerland, South Korea: Penta BDE: Less than or equal to 0,001% EU, USA, Switzerland, South Korea: Octa BDE: Less than or equal to 0,1% USA: Deca BDE: Maximum 0,1% TDCPP: Maximum 0,1%	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII European Union POPs Regulation (EC) No. 850/2004 Japanese Law 112 S81 (USA) A6195 (USA) SB596 (USA) Canada Consumer Product Safety Act Effective June 22, 2014	Analisis required	GC-MS or LC-MS analisis	The restrictions are linked primarily to products for infant use or tissues with direct contact with the skin, regardless of the public to be baby, child or adult.
Polycyclic Aromatic Hydrocarbons (PAHs) Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(e)pyrene Benzo(j)fluoranthene Benzo(k)fluoranthene Chrysene Dibenzo(a,h)anthracene	56-55-3 50-32-8 205-99-2 192-97-2 205-82-3 207-08-9 218-01-9 53-70-3	European Union: Maximum 1 ppm each	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Analisis required	AFPS GS 2014 Extraction with toluene followed by GC-MS analisis	



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

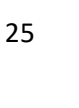
CELLULOSE SPECIFICATIONS

Included in this item are all pulp composition used primarily in insoles.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – CELLULOSE

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Alkylphenols and alkylphenols ethoxylates		EU: NP: Maximum 1000 ppm NPEO: Maximum 100 ppm				
NP (nonylphenol)	25154-52-3/104-40-5/11066-49-2/84852-15-3					
OP (octylphenol)	27193-28-8/140-66-9/1806-26-4	Some Markets European: NP: Maximum 5 ppm OP: Maximum 5 ppm NPEO: Maximum 100 ppm OPEO: Maximum 100 ppm	Directive 2003/53/CE EC Nº 1907/2006 Annex XVII	Analisis required	ISO 18254	
NPEO (nonylphenoethoxylates)	9016-45-9/26027-38-3/37205-87-1/68412-54-4/127087-870					
OPEO (octylphenoethoxylates)	9063-89-2/9002-93-1/9036-19-5/68987-90-6					
Organotin compounds		UE: TPhT / TBT / DBT / DOT / TcyHT / All organotin trisubstituted: Maximum 0,1% weight of tin	Directive 76/769/EC European REACH Regulation EC No. 1907/2006 Annex XVII Japanese Law (Law No. 112) Notice No. 2007-34 issued by the Korean Agency for Technology and Standardization			
Tributyltin (TBT)	56573-85-4				ISO 17353	
Triphenyltin (TPhT)	668-34-8				DIN 38407	
All Organotins trisubstituted	Vários			Analisis required	ISO/TS 16179	
Dibutyltin (DBT)	1002-53-5	Canada: TBT: Prohibited	Canada - Regulatory Prohibition of Certain Substances - SOR/2012-285		SATRA TM 277	
Dioctyltin (DOT)	15231-44-4	South Korea: DBT: Maximum 1 ppm			KS K 0737	
Trichlohexanetin (TcyHT)	6056-50-4					In South Korea TBT is also regulated for children's clothing (less than 24 months) for bedding and products in direct contact with the skin; DBT is restricted to children's clothing (less than 36 months).



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – CELLULOSE

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
CHLOROPHENOLS Pentachlorophenol (PCP) and its salts and esters	87-86-5	EU: Less than 0,5 ppm	Directive 99/51/CE ES 6535/2008 ES 7322/2011 ES 3571/2006 ES 3572/2006	Analisis required	BVL B 82.02-08 ISO 17070	
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 90 ppm China: 100 ppm applies to children's footwear (≤14 years old)	Directive 88/378/EEC Directive 2001/95/EC USA: CPSC	Analisis required	ASTM 1645-1 CPSC-CH-E1002 CPSC-CH-E1003 DIN EN 16711-1 SATRA TM 428	USA/Illinois: 0 - 12 years: 100 ppm lead in substrate; 90 ppm lead in coating Above 12 years: maximum 600 ppm
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm Taiwan: Prohibited South Korea: 75 ppm China: 100 ppm applies to children's footwear (≤14 years old), size of the shoes < 250 mm	Directive 88/378/EEC Directive 2001/95/EC Taiwan: CNS 15290 (children products)	Analisis required	EN 1122 CNS 4797-2 QB/T 4340	
HEAVY METALS Soluble metals	7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	EU: Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	Directive 88/378/EEC Directive 2001/95/EC	Analisis required	EN 71-3 ISO 105/E04	



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

ELECTRICAL COMPONENTS SPECIFICATIONS

Included in all compositions in this item of electrical components, including lights, audio devices and others.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – ELETRICAL COMPONENTS

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
HEAVY METALS Cadmium (Cd) Chromium VI Lead (Pb) Mercury (Hg)	7440-43-9 7440-47-3 7439-92-1 7439-97-6	EU / China: Cadmium (Cd): 100 ppm Chromium VI (Cr): 1000 ppm Lead (Pb): 1000 ppm Mercury (Hg): 1000 ppm USA: Lead (Pb): 90 ppm	Directive 2001/95/EC Directive 88/378/EEC Directive 2011/65/EU	Analisis required	EN 62321 GB/T 26572 CPSC-CH-E1001 CPSC-CH-E1002	
Polybrominated Byphenyls (PBB)	59536-65-1	EU / China: 1000 ppm	European Union REACH Regulation EC Nº 1907/2006 Annex XVII Directive 2011/65/EU	Analisis required	EN 62321 GB/T 26572	
Polybrominated Diphenyl Ethers (PBDE)	Various	EU / China: 1000 ppm	European Union REACH Regulation EC Nº 1907/2006 Annex XVII Directive 2011/65/EU	Analisis required	EN 62321 GB/T 26572	
PHTHALATES Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP) Di-n-butyl phthalate (DBP) Butyl benzyl phthalate (BBP) Diisobutyl phthalate (DIBP)	117-81-7 84-74-2 85-68-7 84-69-5	EU: 500 ppm each phthalate	Directive 2005/84/EC Directive 93/11/EEC Regulation EC Nº 1907/2006 Annex XVII Directive 67/548/EEC	Analisis required	IEC 62321	



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

LEATHER SPECIFICATIONS

Included in this item are all leather compositions, including finished, suede, nubuck, with coating, pigmented, dyed, reconstituted.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Azo dyes			European Union REACH Regulation EC Nº 1907/2006 Annex XVII	Analisis required	ISO 17234-1	In Indonesia, regulation No. 72/M-IND/PER/7/2012
4- Aminodiphenyl Benzidine	92-67-1	Reported as not detected.			GB/T 19942-2005	
4-Chloro-o-Toluidine	92-87-5	EU / Korea: 30ppm (each amine)	Directive 76/769/EEC		Specific method test for confirmation of 4-aminoazobenzene:	Egypt: ES 7266-4/2011 ES 7322/2011
2- Naphthylamine	95-69-2		Directive 2002/61/EC			
o-Aminoazotoluene	91-59-8					
2-Amino-4-nitrotoluene	97-56-3					
2,4 Diaminoaniso	99-55-8	China: 30ppm	Directive 67/548/EEC		ISO 17234-2	Taiwan: CNS 15290; CNS 15503 (children's products)
4,4 Diaminodiphenylmethane	615-05-4				§ 64 LFGB B 82.02-3	CNS 8634 (leather casual shoes)
3,3-Dichlorobenzidine	101-77-9		Amendments: (2002/61/EC, 2003/3/EC, 2004/21/EC)			
3,3- Dimethoxybenzidine (o-Dianisidine)	91-94-1				LFGB 82.02-9	CNS 10632 (leather footwear)
3,3- Dimethylbenzidine (o-Tolidine)	119-90-4					
3,3- Dimethyl-4,4'-diaminodiphenylmetane	119-93-7		Marking Security Act (KC Mark - Korea)			
p-Chloroaniline	838-88-0					
p-Cresidine	106-47-8		National Standards			
4,4-Methylene-bis-(2-chloroaniline)	120-71-8		Committee of the Republic of China GB18401-2010			
4,4- Oxydianiline	101-14-4					
4,4- Thiodianiline	101-80-4					
2,4- Toluenediamine	139-65-1					
o-Toluidine	95-80-7					
2,4,5-Trimethylaniline	95-53-4					
o-Anisidine	137-17-7					
4-Amino-azobenzene	90-04-0					
2,4-Xylidine	60-09-3					
2,6-Xylidine	95-68-1					
	87-62-7					



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
CHLORINATED PHENOLS						
Trichlorophenol (TCP)	15950-66-0/933-78-8/933-75-5/95-95-4/88-06-2/609-19-8	PCP: Switzerland / Spain / Egypt / Denmark / Germany / Holland / Austria / Norway and South Korea: Not detected	Directive 99/51/CE ES 6535/2008 ES 7322/2011 ES 3571/2006 ES 3572/2006	Analisis required	ISO 17070	
Tetrachlorophenol (TeCP)	935-95-5/58-90-2/4901-59-3/25167-83-3	TeCP: China / Switzerland: Not detected (LD: 0,5mg/kg) Some European markets: PCP and TeCP: Under 3 years: Usage ban (Prohibited); LD: 0,05mg/kg Over 3 years: Less than 5 ppm				
Pentachlorophenol (PCP)	87-86-5	TrCP (salts and esters): 0-3 years: Σ less than 0,2 ppm More 3 years and adults: Σ less than 2 ppm				
Orthophenylphenol (OPP)	90-43-7	EU: 0-3 years: 50 ppm More 3 years: 100 ppm	Directive 99/51/CE ES 6535/2008 ES 7322/2011 ES 3571/2006 ES 3572/2006	Analisis required	ISO 13365	

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
HEXAVALENT CHROMIUM	18540-29-9	EU / South Korea / Taiwan / Egypt: Not detected (detection limit 3 ppm) Some European Markets: 0-3 years: maximum 0,5 ppm More 3 years: maximum 3 ppm China: 10 ppm	Directive 2000/53/EC Directive 2002/95/EU Eighteenth Regulation of German Commodity of 03/08/2010 GB 30585-2014	Analisis required	ISO 17075 § 64 LFGB 82.02-11 (Germany) QB/T 22807	
Alkylphenols and alkylphenols ethoxylates						
NP (nonylphenol)	25154-52-3/104-40-5/11066-49-2/84852-15-3	EU: NP: Maximum 1000 ppm NPEO: Maximum 100 ppm Some Markets European: NP: Maximum 5 ppm OP: Maximum 5 ppm NPEO: Maximum 100 ppm OPEO: Maximum 100 ppm	Directive 2003/53/CE EC Nº 1907/2006 Annex XVII	Analisis required	ISO 18218-1 ISO 18218-2	
OP (octylphenol)	27193-28-8/140-66-9/1806-26-4				SATRA TM 388	
NPEO (nonylphenoethoxylates)	9016-45-9/26027-38-3/37205-87-1/68412-54-4/127087-870					
OPEO (octylphenoethoxylates)	9063-89-2/9002-93-1/9036-19-5/68987-90-6					

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Organotin compounds		UE:	Directive 76/769/EC			In South Korea TBT is also regulated for children's clothing (less than 24 months) for bedding and products in direct contact with the skin; DBT is restricted to children's clothing (less than 36 months).
Tributyltin (TBT)	56573-85-4	TPHT / TBT / DBT / DOT / TcyHT / All organotin trisubstituted:	European REACH Regulation EC No. 1907/2006 Annex XVII		ISO 17353	
Triphenyltin (TPHT)	668-34-8	Maximum 0,1% weight of tin	Japanese Law (Law No. 112)		DIN 38407	
All Organotins trisubstituted	Vários		Notice No. 2007-34 issued by the Korean Agency for Technology and Standardization	Analisis required	ISO/TS 16179	
Dibutyltin (DBT)	1002-53-5	Canada: TBT: Prohibited	Canada - Regulatory Prohibition of Certain Substances - SOR/2012-285		SATRA TM 277	
Dioctyltin (DOT)	15231-44-4	South Korea: DBT: Maximum 1 ppm			KS K 0737	
Tricichlohexanetin (TcyHT)	6056-50-4					
HEAVY METALS (Soluble metals)	7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	Directive 2001/95/EC Directive 88/378/EEC CNS 15290 (Taiwan)	Analisis required	ISO 17072-1 CNS 4797-2 (Taiwan)	In Taiwan, the restriction to cadmium classifies it as prohibited.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
FORMALDEHYDE	50-00-0	EU: Children 0-3 years: 16 ppm Children over 3 years and products with direct skin contact: 75 ppm Without direct skin contact: 300 ppm China: 0-2 years: 20 ppm Over 2 years and products with direct skin contact: 75 ppm Without direct skin contact: 300 ppm Without direct skin contact: 75 ppm For sports shoes for babies and for children's shoes with parts in direct contact with the skin: Less than or equal to 75 ppm For children's sports shoes and components without direct contact with the skin: Less than or equal to 300 ppm	European Union REACH Regulation EC Nº 1907/2006 Annex XVII 2009/563/CE GB20400-2006 QB/T 4331	Analisis required	EN ISO 17226-1 EN ISO 17226-2 GB/T 19941	For China, baby sports shoes are intended for children 0 to 3 years and size smaller than 170 mm. Children's sports shoes are those designed for children from 3 to 14 years and size smaller than 250 mm.
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 100 ppm total 90 ppm finishing China: 100 ppm	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII Statutory order no. 856 (Denmark) CPSC/CPSIA GB 30585 USA: CPSC	Analisis required	ISO 17072-2 ASTM 1645-1 CPSC-CH-E1002 CPSC-CH-E1003 ASTM F 2853 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).

ATITUDE
 100%
 QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Rate of lead release (Pb)	7439-92-1	Total Lead: 500 ppm Rate of lead release of Lead: Less or equal to 0,05µg/cm ² /h (0,05 µg/g/h)	European Union REACH Regulation EC Nº 1907/2006 Annex XVII	Analisis required	DIN 54233-4	This restriction is applicable to products wich are supplied to the general public, and can be placed in the mouth by children. This restriction will apply from 1 June 2016.
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm Taiwan: Prohibited China: 100 ppm	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII Taiwan: CNS 15290 (children products) GB 30585-2014	Analisis required	EN 1122 ISO 17072-2 CNS 4797-2 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Heavy metals (total content) – Arsenic (As)	7440-38-2	China: 100 ppm	GB 30585-2014	Analisis required	QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
CHLORALKANES C10 - C13 (Short chain chlorinated paraffins)	85535-84-8	EU: 1000 ppm (0,1%)	Directive 2002/45/EC French Regulation ECECO828052A POPs regulation EC No. 850/2004 Annex I, amended by Regulation (EU) 2015/2030	Analisis required	ISO 18219	Listed as candidate on list of very high concern substance (SVCH). POPs: Articles should not contain short chain chlorinated paraffins above 0.15% by weight.
CHLORALKANES C14 - C17 (Medium chain chlorinated paraffins)	85535-85-9	EU: 1000 ppm (0,1%)	Directive 2002/45/EC POPs regulation EC No. 850/2004 Annex I, amended by Regulation (EU) 2015/2030	Analisis required	ISO 18219	
PERFLUOROCTANE SULPHONATE (PFOS) PERFLUOROCTANE ACID (PFOA) AND ITS SALTS	2795-39-3 335-67-1/ 3825-26-1/ 335-95-5 2395-00-8/ 335-66-0 376-27-2/ 3108-24-5	EU/ China/ Norway/ Egypt/ Canada: 1µg/m ² coated leather Less than 0,1% for articles	Directive 2006/122/EC POPs regulation (EC) No 850/2004 Annex I	Analisis required	CEN/TS 15968	* The 1999 Law of Canada Environmental Protection Act (CEPA 1999), Registration SOR 2008/178 prohibits the manufacture, use, sale, offer for sale and import of PFOS and PFOS-containing products, but does not specify limits. PFOA has been included in the Norwegian Product Regulation with different limits for various products.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PHTHALATES		EU: DEHP+DBP+BBP: 0,1% DINP+DIDP+DNOP: 0,1%	Directive 2005/84/EC Directive 93/11/EEC Regulation EC 1907/2006 Annex XVII	Analisis required	CPSC-CH-C1001-09.3	There is a market consensus pointing to a maximum of 500 ppm (0.05%) for each phthalate use in children's articles and a maximum of 1000 ppm the sum of all.
Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP)	117-81-7	USA e Canada: each phthalate 0,1%	California: AB1108		GB/T 22048-2008	
Di-n-butyl phthalate (DBP)	84-74-2	South Korea / Denmark/	Denmark: Legal Order 786		BS EN 14372	
Butyl benzyl phthalate (BBP)	85-68-7	Turkey and Egypt:	Directive 67/548/EEC			
Diisodecyl phthalate (DIDP)	26761-40-0 and 68515-49-1	0,1%	CNS 15503 (children's products) Notice of confirmation of self regulation No. 2007-34, issued by the Korean Agency for Technology and Standardization			Applicable only for leathers with plastic coating.
Diisononyl phthalate (DINP)	28553-12-0 and 68515-48-0	China: Footwear size ≤170mm and for children from 0-36 months: DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1%	Improvement Action for Safety of Consumer Products: PL 110-787			
Di-n-octyl phthalate (DNOP)	117-84-0	Footwear size > 170mm and ≤250mm for children from 36 months to 14 years: DEHP, DBP, BBP: 0.1%	Clause 1 of the Canadian Rules of Dangerous stuffs China: GB 30585			
Diethyl phthalate (DEP)	84-66-2	Taiwan:	CNS 15503 (children products)	Analisis required	CNS 15138	Applicable only for leathers with plastic coating
Dimethyl phthalate (DMP)	131-11-3	0.1% sum of DMP and DEP				
Various phthalates, except: DEHP, DNOP, BBP, DBP, DINP, DIDP	---	Denmark: 0,05%	Statutory Order 855	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applied for children's articles for children from 0 to 3 years. Applicable only for leathers with plastic coating
1,2 - benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters (DHNUP)	68515-42-4	EU: 0,1% weight / weight per article (each)	European regulation REACH EC 1907/2006 List of candidates	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applicable only for leathers with plastic coating



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
1,2-benzenedicarboxylic acid, di-C6-8-alkyl ester branched, C7-rich (DIHP) Bis (2-methoxyethyl) phthalate (DMEP) Diisopentyl phthalate (DIPP) N-pentyl-isopentyl phthalate (NPIPP) 1,2- Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP) Di-n-exyl phthalate (DnHP / DHP) Diphenyl phthalate 1,2-Benzenedicarboxylic acid. Diexyl ester, branched and linear 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, exil and octyl diesters with ≥0.3% diexyl phthalate	71888-89-6 117-82-8 605-50-5 776297-69-9 84777-06-0 84-75-3 131-18-0 68515-50-4 68515-51-5 and 68648-93-1	EU: 0,1% weight/weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applicable only for leathers with plastic coating
pH of aqueous extract	----	pH = 3,5 – 7,5	Directive 89/686/EEC GB 18401-2010 ES 6535/2008	Analisis required	DIN EN ISO 4045 GB/T 7573 KS K ISO 3071	Criteria established in China: pH: 4.0 to 7.5 for children's products, 0-36 months; pH: 4.0 to 8.5 for products with direct contact with the skin; pH: 4.0 to 9.0 for products without direct contact with the skin. Criteria established in South Korea: pH: 4.0 to 7.5 products for babies, kids, underwear and intermediate use; pH: 4.0 to 9.0 for external clothing and bedding. In Egypt, the only specification is not to be below 3.5.

ATTITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PESTICIDES						
2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds (1)	93-72-1	EU and Switzerland: Pesticides 1 - 11: Not detected.	Directive 1976/464	Declaration	Extraction by organic solvente Methods EPA: 8081A/8151A	For Dieldrin, PCP and TeCP, South Korea restricts application to different levels for underwear and babies (under 24 months) and bedding.
2,4,5-trichlorophenoxyacetic acid, its salts and compounds (2)	93-76-5					
Aldrin (3)	309-00-2					
Chlordane (4)	57-74-9					
Dichloro-diphenyl-dichloro ethane (DDD) (5)	72-54-8	EU: Pesticides 12 - 14: Prohibited.	Directive 91/414/EEC	Directive 2009/82/EC		
Dichloro diphenyl dichloro ethylene (DDE) (6)	72-55-9					
Dichloro-diphenyl-trichloro ethane (DDT) (7)	50-29-3					
Dieldrin (8)	60-57-1					
Endrine (9)	72-20-8	Japan: Pesticide 15: Less or equal to 30 ppm	Switzerland: ChemRRV Art. 3 Appendix 1.1 and Appendix 2.17			
Heptachlorine (10)	76-44-8					
Epoxy – heptachlorine (11)	1024-57-3					
Endosulfan and its isomers (12)	115-29-7					
Pentabromobenzene (13)	8/33213-65-9	EU, Switzerland and Canada: Pesticides 16 - 35: Prohibited.	Canada: Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)			
Hexabromobiphenyl (14)	7/959-98-8					
4,6-Dichloro-7(2,4,5-trichloro-phenoxy)0-2-trifluoro methyl benz-imidazole (DTTB) (15)	8/33213-65-9					
Hexachlorobenzene (16)	608-93-5					
Hexachlorocyclohexane (17)	36355-01-8	Some European markets: Pesticides 1 to 47, excluding 8, 13, 14, 15, 28, 29, 30, 31, 32, 34, 36: Less than 1 ppm	European Union POPs Regulation (EC) Nº 850/2004 Annex I			
Isodrin (18)	63405-99-2					
Kelevane (19)	2/57648-21-2					
Kepone (Chlordecone) (20)	118-74-1					
Methoxychlor (21)	608-73-1	Pesticide 8: Less than 0,01 ppm				
Mirex (22)	1/319-84-6					
Perthane (23)	6/319-85-7					
Quintozene (24)	7/319-86-8					
Strobane (25)	465-73-6					
Telodrin (Isobenzan) (26)	4234-79-1					
Toxaphene (Camphechlorine) (27)	143-50-0					
Halogenated biphenyls, including PCB (28)	72-43-5					
Halogenated terphenols, including PCT (29)	2385-85-5					
Halogenated naphthalenes (30)	72-56-0					
Halogenated diarylalkanes (31)	82-68-8					
	8001-50-1					
	297-78-9					
	8001-35-2					
	1336-36-3					
	3/54469-21-9					



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PESTICIDES Halogenated diphenyl methanes (32) Monomethyl-dibromo-diphenyl methane (33) Monomethyl-dichloro-diphenyl methane (34) Monomethyl-tetrachloro-diphenyl methane (35) Dimethyl fumarate (36) Lindane (37) Metamidofos (38) Monocrotofos (39) Parathion (40) Parathion metil (41) Phosphamidone (42) Captafol (43) Chlordimeform (44) Chlorobenzilate (45) Dibromochloropropane (DBCP) (46) Dinoseb (47) DTTB (Timiperone) (48) Ethylene dibromide (49)	Various Various Various 99688-47-8 81161-70-8 76253-60-6 624-49-7 58-89-9 10265-92-6 6923-22-4 56-38-2 298-00-0 13171-21-6 2425-06-1 6164-98-3 510-15-6 96-12-08 88-85-7 57648-21-2 106-93-4	EU, Switzerland and Canada: Pesticides 16 - 35: Prohibited. EU: Pesticide 36: Prohibited China: Pesticide 36: 0,1 ppm Some European markets: Pesticides 1 to 47, excluding 8, 13, 14, 15, 28, 29, 30, 31, 32, 34, 36: Less than 1 ppm Pesticide 8: Less than 0,01 ppm	Directive 1976/464 Directive 91/414/EEC Directive 2009/82/EC Switzerland: ChemRRV Art. 3 Appendix 1.1 and Appendix 2.17 Canada: Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285) European Union POPs Regulation (EC) Nº 850/2004 Annex I	Declaration	Extraction by organic solvente Methods EPA: 8081A/ 8151A	
Carcinogenic Dyes Acid Red 26 Basic Red 9 Direct Black 38 Direct Blue 6 Direct Red 28 Disperse Blue 1 Disperse Yellow 3 Basic Violet 14 Disperse Orange 11 Basic Violet 3 Basic Blue 26	3761-53-3 569-61-9 1937-37-7 2602-46-2 573-58-0 2475-45-8 2832-40-8 632-99-5 82-28-0 548-62-9 2580-56-5	EU: Not detected (Detection limit: 15 mg/kg)	Directive 2003/3/EC Directive 67/548/EEC Law § 30 (§ 30 LFGB) - Germany	Analisis required	DIN 54231 ISO 16373-3 § 64 LFGB B82.02-10	



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – LEATHER

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments	
Allergenic Disperse Dyes							
Disperse Blue 1	2475-45-8	EU: Not detected (Detection limit: 15 mg/kg)	Directive 2003/3/EC	Analysis required	DIN 54231	In South Korea, the restrictions are applied to baby clothes, children's clothes and adult intimate clothes.	
Disperse Yellow 3	2832-40-8				ISO 16373-2		
Disperse Blue 35	12222-75-2		Directive 67/548/EEC		\$ 64 LFGB B82.02-10		
Disperse Blue 106	12223-01-7						
Disperse Blue 124	61951-51-7		Law § 30 (§ 30 LFGB) - Germany				
Disperse Orange 3	730-40-5						
Disperse Orange 37/59/76	12223-33-5						
Disperse Red 1	2872-52-8						
Disperse Blue 3	2475-46-9						
Disperse Blue 7	3179-90-6						
Disperse Blue 26	3860-63-7						
Disperse Blue 102	12222-97-8						
Disperse Brown 1	23355-64-8						
Disperse Orange 1	2581-69-3						
Disperse Red 11	2872-48-2						
Disperse Red 17	3179-89-3						
Disperse Yellow 1	119-15-3						
Disperse Yellow 9	6373-73-5						
Disperse Yellow 39	12236-29-2						
Disperse Yellow 49	54824-37-2						
Disperse Orange 149	85136-74-9						
Disperse Yellow 23	6250-23-3						
BLUE COLOURANTS							
Component 1: C39H23ClCrN7O12S.2Na	118685-33-9	EU: Prohibited	European REACH Regulation EC No. 1907/2006 Annex XVII	Analysis required	DIN 54231		
Component 2: C46H30CrN10O20S2.3Na	----	(0,1% weight)					



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

PACKING AND PACKING WASTE

Included in this item tissue paper, plastic shell, shoe boxes, bags, inserts, labels, etc.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PACKING AND PACKING WASTE

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordanc e with	Recommended analysis method	Comments
HEAVY METALS (Totais) Cadmium (Cd) Lead (Pb) Mercury (Hg) Chromium Hexavalent (Cr VI)	7440-43-9 7439-92-1 7439-97-6 18540-29-9	EU: 100 ppm (sum of four metals listed)	Directive 94/62/EC	Analisis required	Cadmium, lead and mercury: DIN 54233-3 Lead: CPSC-CH-E1002 Chromium VI: ISO 17075	
CHLORINATED PHENOLS PCP, its salts and esters	87-86-5	EU: Less than 0,5 ppm	Directive 99/51/CE ES 6535/2008 ES 7322/2011 ES 3571/2006	Analisis required	BVL B 82.02-08 ISO 17070	
FORMALDEHYDE	50-00-0	EU: Maximum: 150 ppm	GB20400-2006 2009/563/CE	Analisis required	EN 645 EN 1541	
Organotin compounds Tributyltin (TBT) Triphenyltin (TPHT) All Organotins trisubstituted Dibutyltin (DBT) Diocetyl tin (DOT) Tricichlohexanetin (TcyHT)	56573-85-4 668-34-8 Vários 1002-53-5 15231-44-4 6056-50-4	UE: TPHT / TBT / DBT / DOT / TcyHT / All organotin trisubstituted: Maximum 0,1% weight of tin Canada: TBT: Prohibited South Korea: DBT: Maximum 1 ppm	Directive 76/769/EC European REACH Regulation EC No. 1907/2006 Annex XVII Japanese Law (Law No. 112) Notice No. 2007-34 issued by the Korean Agency for Technology and Standardization Canada - Regulatory Prohibition of Certain Substances - SOR/2012-285	Analisis required	ISO 17353 DIN 38407 ISO/TS 16179 SATRA TM 277 KS K 0737	In South Korea TBT is also regulated for children's clothing (less than 24 months) for bedding and products in direct contact with the skin; DBT is restricted to children's clothing (less than 36 months).



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PACKING AND PACKING WASTE

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Alkylphenols and alkylphenols ethoxylates		EU: NP: Maximum 1000 ppm NPEO: Maximum 100 ppm				
NP (nonylphenol)	25154-52-3 104-40-5 11066-49-2 84852-15-3	Some Markets European: NP: Maximum 5 ppm OP: Maximum 5 ppm NPEO: Maximum 100 ppm OPEO: Maximum 100 ppm		Analisis required		
OP (octylphenol)	27193-28-8 140-66-9 1806-26-4		Directive 2003/53/CE EC Nº 1907/2006 Annex XVII		ISO 18254	
NPEO (nonylphenoethoxylates)	9016-45-9 26027-38-3 37205-87-1 68412-54-1 127087-8704					
OPEO (octylphenoethoxylates)	9063-89-2 9002-93-1 9036-19-5 68987-90-6					

ATITUDE
100%
QUALIDADE



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

METALS SPECIFICATIONS

Included in this item any molded, pressed or coated metal, such as pendants, fasteners, grommets, washers, buckles, rings, among others.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – METALS						
Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 100 ppm total China: 100 ppm	Diretive 91/338/EC European Union REACH Regulation EC N° 1907/2006 Annex XVII Statutory order n° 856 (Denmark) CPSC/CPSIA	Analisis required	CPSC-CH-E1001 QB/T 4340 ASTM 1645	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Rate of lead release (Pb)	7439-92-1	Total Lead: 500 ppm Rate of lead release of Lead: Less or equal to 0,05µg/cm²/h (0,05 µg/g/h)	European Union REACH Regulation EC N° 1907/2006 Annex XVII	Analisis required	DIN 54233-4	This restriction is applicable to products wich are supplied to the general public, and can be placed in the mouth by children. This restriction will apply from 1 June 2016.
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm Taiwan: Prohibited South Korea: 75 ppm China: 100 ppm applies to children’s footwear (≤14 years old), size of the shoes < 250 mm	Directive 88/378/EEC Directive 2001/95/EC Taiwan: CNS 15290 (children products)	Analisis required	CPSC-CH-E1001 CNS 4797-2 QB/T 4340 EN 1122	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Heavy metals (total content) – Arsenic (As)	7440-38-2	China: 100 ppm	GB 30585-2014	Analisis required	QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).

RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – METALS

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
NICKEL	7440-02-0	EU: 0,5 µg/cm ² /week	Directive 94/27/EC Directive 2004/96/EEC European Union REACH Regulation EC Nº 1907/2006 Annex XVII	Analisis required	For non-coated item: EN 1811 + A1:2015 For coated item: EN 12472 + A1:2009 and EN 1811 + A1:2015	According to AAFA, the restriction is only applied in cases where the metal has direct and prolonged contact with skin.
HEAVY METALS (Soluble metals)	7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	EU: Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	Directive 2001/95/EC Directive 88/378/EEC	Analisis required	EN 71-3 ISO 105/E04	

ATITUDE
100%
QUALIDADE



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

PLASTIC SPECIFICATIONS

This part comprises plastics materials used for any purpose, whose composition is based on PVC, TPR, PU, Nylon.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
CHLORALKANES C10 - C13 (Short chain chlorinated paraffins)	85535-84-8	EU: 1000 ppm (0,1%)	Directive 2002/45/EC French Regulation ECECO828052A POPs regulation EC No. 850/2004 Annex I, amended by Regulation (EU) 2015/2030	Analysis required	ISO 18219	Listed as candidate on list of very high concern substance (SVCH). POPs: Articles should not contain short chain chlorinated paraffins above 0.15% by weight.
CHLORALKANES C14 - C17 (Medium chain chlorinated paraffins)	85535-85-9	EU: 1000 ppm (0,1%)	Directive 2002/45/EC POPs regulation EC No. 850/2004 Annex I, amended by Regulation (EU) 2015/2030	Analysis required	ISO 18219	
HEAVY METALS (Soluble metals)	7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	Egypt/Taiwan: Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	ES 7322/2011 CNS 15503	Analysis required	EN 71-3 ISO 105/E04 CNS 4797-2	Egypt: restriction applied for articles for children under 36 months, footwear size less than 26. Taiwan: restriction applied to articles intended for children under 14 years of age
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 100 ppm total 90 ppm finishing China: 100 ppm	Directive 91/338/EC European Union REACH Regulation EC No 1907/2006 Annex XVII Statutory order n° 856 (Denmark) CPSC/CPSIA GB 30585	Analysis required	CPSC-CH-E1002 ASTM 1645-1 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Rate of lead release (Pb)	7439-92-1	Total Lead: 500 ppm Rate of lead release of Lead: Less or equal to 0,05µg/cm ² /h (0,05 µg/g/h)	European Union REACH Regulation EC Nº 1907/2006 Annex XVII	Analysis required	DIN 54233-4	This restriction is applicable to products which are supplied to the general public, and can be placed in the mouth by children. This restriction will apply from 1 June 2016.
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm Taiwan: Prohibited China: 100 ppm South Korea: 75 ppm (surfaces coatings and printing)	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII GB 30585-2014 CNS 15290	Analysis required	EN 1122 CNS 4797-2 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Heavy metals (total content) – Arsenic (As)	7440-38-2	China: 100 ppm	GB 30585-2014	Analysis required	QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Hexavalent Chromium – Cr VI	18540-29-9	Taiwan: 10 ppm	CNS 15503	Analysis required	CNS 15331 Annex A CNS 15331 Annex B	Applies to children products.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Heavy metals (soluble) – Lead (Pb) Cadmium (Cd)	7439-92-1 7440-43-9	China: Lead: 90 ppm Cadmium: 75 ppm	GB 21550-2008	Analysis required	GB 21550 item 5.4	Applies to PVC synthetic laminate.
PHthalATES Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP) Di-n-butyl phthalate (DBP) Butyl benzyl phthalate (BBP) Diisodecyl phthalate (DIDP) Diisononyl phthalate (DINP) Di-n-octyl phthalate (DNOP)	117-81-7 84-74-2 85-68-7 26761-40-0 and 68515-49-1 28553-12-0 and 68515-48-0 117-84-0	EU: DEHP+DBP+BBP: 0,1% DINP+DIDP+DNOP: 0,1% USA e Canada: each phthalate 0,1% South Korea / Denmark/ Turkey and Egypt: 0,1% China: Footwear size ≤170mm and for children from 0-36 months: DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% Footwear size > 170mm and ≤250mm for children from 36 months to 14 years: DEHP, DBP, BBP: 0.1%	Directive 2005/84/EC Directive 93/11/EEC Regulation EC 1907/2006 Annex XVII California: AB1108 Denmark: Legal Order 786 Directive 67/548/EEC CNS 15503 (children's products) Notice of confirmation of self regulation No. 2007-34, issued by the Korean Agency for Technology and Standardization Improvement Action for Safety of Consumer Products: PL 110-787 Clause 1 of the Canadian Rules of Dangerous stuffs China: GB 30585	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	There is a market consensus pointing to a maximum of 500 ppm (0.05%) for each phthalate use in children's articles and a maximum of 1000 ppm the sum of all.
Diethyl phthalate (DEP) Dimethyl phthalate (DMP)	84-66-2 131-11-3	Taiwan: 0.1% sum of DMP and DEP	CNS 15503 (children products)	Analysis required	CNS 15138	



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Various phthalates, except: DEHP, DNOP, BBP, DBP, DINP, DIDP	---	Denmark: 0,05%	Statutory Order 855	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applied for children's articles for children from 0 to 3 years.
1,2 - benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters (DHNUP)	68515-42-4	EU: 0,1% weight / weight per article (each)	European regulation REACH EC 1907/2006 List of candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	
1,2-benzenedicarboxylic acid, di-C6-8-alkyl ester branched, C7-rich (DIHP) Bis (2-methoxyethyl) phthalate (DMEP) Diisopentyl phthalate (DIPP) N-pentyl-isopentyl phthalate (NPIPP) 1,2- Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP) Di-n-exyl phthalate (DnHP / DHP) Diphenyl phthalate 1,2-Benzenedicarboxylic acid. Diexyl ester, branched and linear 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, exil and octyl diesters with ≥0.3% diexyl phthalate	71888-89-6 117-82-8 605-50-5 776297-69-9 84777-06-0 84-75-3 131-18-0 68515-50-4 68515-51-5 and 68648-93-1	EU: 0,1% weight/weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PERFLUOROCTANE SULPHONATE (PFOS) PERFLUOROCTANE ACID (PFOA) AND ITS SALTS	2795-39-3 335-67-1/ 3825-26-1/ 335-95-5/ 2395-00-8/ 335-66-0 376-27-2/ 3108-24-5	EU / Norway / Egypt / Switzerland / Turkey: Maximum 0.1% (1000 ppm) Canada*: see comments.	Directive 2006/122/EC POPs regulation (EC) No 850/2004 Annex I	Analysis required	CEN/TS 15968	* The 1999 Law of Canada Environmental Protection Act (CEPA 1999), Registration SOR 2008/178 prohibits the manufacture, use, sale, offer for sale and import of PFOS and PFOS-containing products, but does not specify limits.
NITROSAMINES N-nitrosodimethylamine (NMDA) N-nitrosodimethylamine (NDEA) Nitrosodi N-propylamine (NDPA) N-nitrosodibutylamine (NDBA) N-nitrosopepirdina (NPIP) N-Nitrosopyrrolidine (NPYR) N-nitrosomorpholine (NMOR) N-nitroso-N-methylaniline N-nitroso-N-ethylaniline	62-75-9 55-18-5 621-64-7 924-16-3 100-75-4 930-55-2 59-89-2 614-00-6 612-64-6	EU: 0,5 ppm China: not detected (detection limit 0.5 mg / kg)	Directive 76/769/EEC Directive 93/11/EEC European Eco-Label China: GB 25036-2010, GB 25038-2010, GB 30585-2014	Analysis required	BS EN 12868 GB/T 24153 DIN EN ISO 71-12	GB 30585-2014: Only applicable to rubber parts of infant shoes



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Organotin compounds		UE:	Directive 76/769/EC			
Tributyltin (TBT)	56573-85-4	TPHT / TBT / DBT / DOT / TcyHT	European REACH		ISO 17353	In South Korea TBT is also regulated for children's clothing (less than 24 months) for bedding and products in direct contact with the skin; DBT is restricted to children's clothing (less than 36 months).
Triphenyltin (TPHT)	668-34-8	/ All organotin trisubstituted:	Regulation EC No. 1907/2006 Annex XVII		DIN 38407	
All Organotins trisubstituted	Vários	Canada: TBT: Prohibited	Japanese Law (Law No. 112)	Analysis required	ISO/TS 16179	
Dibutyltin (DBT)	1002-53-5	South Korea: DBT: Maximum 1 ppm	Notice No. 2007-34 issued by the Korean Agency for Technology and Standardization		SATRA TM 277	
Diocetyltn (DOT)	15231-44-4		Canada - Regulatory Prohibition of Certain Substances - SOR/2012-285		KS K 0737	
Tricichlohexanetin (TcyHT)	6056-50-4					
Arsenic and arsenic compounds	15606-95-8/ 7778-39-4/ 7440-88-2/ 1327-53-3	EU: 1000ppm USA/Washington: Maximum 1 ppm	Directive 67/548/EEC Directive 2006/139/EC Directive 2002/95/EC Washington Chidren's Safe Product Act	Analysis required	ISO 17378-2	
Polycyclic Aromatic Hydrocarbons (PAHs)		European Union: Maximum 1 ppm each	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Analysis required	AFPS GS 2014 Extraction with toluene followed by GC-MS analysis	
Benzo(a)anthracene	56-55-3					
Benzo(a)pyrene	50-32-8					
Benzo(b)fluoranthene	205-99-2					
Benzo(e)pyrene	192-97-2					
Benzo(j)fluoranthene	205-82-3					
Benzo(k)fluoranthene	207-08-9					
Chrysene	218-01-9					
Dibenzo(a,h)anthracene	53-70-3					



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Flame retardants - PBBs - Tris (2,3-dibromopropyl) phosphate - Bis (2,3- dibromopropyl) phosphate - Tris (1-aziridiny)-phosphine oxide (TEPA) - TCEP - Penta BDE - Octa BDE - Deca BDE - TDCPP	59536-65-1 126-72-7 5412-25-9 545-55-1 115-96-8 32534-81-9 32536-52-0 1163-19-5 13674-87-8	EU, Turkey, Canada, USA, South Korea and Egypt: PBBs: prohibited EU, Turkey, Switzerland, Japan, USA, Egypt, South Korea: Tris (2,3-dibromopropyl) phosphate: prohibited Japan: Bis (2,3- dibromopropyl) phosphate: prohibited EU, Switzerland, Turkey, Japan, South Korea and Egypt: Tris (1-aziridiny)-phosphine oxide (TEPA): prohibited USA (New York), Canada, EU: TCEP: prohibited EU, USA, Switzerland, South Korea: Penta BDE: Less than or equal to 0,001% EU, USA, Switzerland, South Korea: Octa BDE: Less than or equal to 0,1% USA: Deca BDE: Maximum 0,1% TDCPP: Maximum 0,1%	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII European Union POPs Regulation (EC) No. 850/2004 Japanese Law 112 S81 (USA) A6195 (USA) SB596 (USA) Canada Consumer Product Safety Act Effective June 22, 2014	Analysis required	GC-MS or LC-MS analysis	The restrictions are linked primarily to products for infant use or tissues with direct contact with the skin, regardless of the public to be baby, child or adult.



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

MOISTURE ABSORPTION SACHETS SPECIFICATIONS

In this category is included any material used to absorb moisture and anti-mold agent, such as silica gel.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – MOISTURE ABSORPTION SACHETS

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
DIMETHYL FUMARATE (DMFU)	624-49-7	EU: Prohibited China: 0,1 ppm	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Analysis required	ISO DIS 16186 ABNT ISO/TS 16186 CNS 15331 Annex C GB 30585	Spain, Belgium, France and other European countries block signal bans for products containing DMFU.

ATITUDE
100%
QUALIDADE



Number: **References:** ABNT NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

FABRIC AND NON FABRIC SPECIFICATIONS

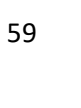
Included in this item are natural fiber textiles, such as cotton, flax, hemp and silk and synthetic fiber textile materials, including polyester, nylon and acrylic.

They also include blends of these materials and PU synthetic laminated.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
AZOCOLLOURANTS						
4 - benzidine aminodifenil	92-67-1	Reported as non detected.	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Analysis required	Natural and Synthetic fibers: EN 14362-1 §64LFGB	In Indonesia regulation No. 72/M-IND/PER/7/2012 SNI7617:2013
4-chloro-o-toluidine	92-87-5					
2 - o-naftilamine aminoazotoluene	95-69-2					
2-amino-4-nitrotoluene	91-59-8					
2.4 diaminoaniso	97-56-3	EU: 30ppm (each amine)	Directive 76/769/EEC		BVL B 82.02-2.	Egypt: ES 7266-4/2011 ES 7322/2011
4.4 diaminodiphenylmethane	99-55-8					
3,3-dichlorobenzidine	615-05-4					
3,3 - dimethoxybenzidine (o-dianisidine)	101-77-9					
3,3 - dimethyl-4, 4'-diaminodiphenylmethane	91-94-1	China: 20ppm	Directive 2002/61/EC		§64LFGB BVL B 82.02-4.	Taiwan: CNS 15290; CNS 15503 (children's products)
3,3 - dimethyl-4, 4'-diaminodiphenylmethane	119-90-4					
3,3 - dimethyl-4, 4'-diaminodiphenylmethane	119-93-7					
3,3 - dimethyl-4, 4'-diaminodiphenylmethane	838-88-0					
p-chloroaniline	106-47-8		Amendments: (2002/61/EC; 2003/03/EC; 2004/21/EC)		For 4-aminoazobenzene: EN 14362-3 (§64LFGB BVL B 82.02-9)	Japan: JIS L 1940
p-cresidine	120-71-8					
4,4-methylene-bis (2 - chloroaniline)	101-14-4					
4.4 - oxydianiline	101-80-4					
4.4 - thiodianiline	139-65-1		GB/T 17592 – 2011		GB/T 17592-2011	Vietnam: Temporary Regulation Circular No. 32/2009 / TT- BCT
2,4 - diaminotoluene	95-80-7					
o-toluidine	95-53-4					
2,4,5-trimethylaniline	137-17-7					
o-anisidine	90-04-0		Directive 67/548/EEC			
p-amino-azobenzene	60-09-3					
2,4-xylidine	95-68-1					
2,6-xylidine	87-62-7					
			GB 18401			



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analisis method	Comments
Allergenic Disperse Dyes						
Disperse Blue 1	2475-45-8	EU:	Directive 2003/3/EC		DIN 54231	In South Korea, the restrictions are applied to baby clothes, children's clothes and adult intimate clothes.
Disperse Yellow 3	2832-40-8	Not detected.		Analisis required		
Disperse Blue 35	12222-75-2	(Detection limit: 15 mg/kg)	Directive 67/548/EEC		ISO 16373-2	
Disperse Blue 106	12223-01-7					
Disperse Blue 124	61951-51-7		Law § 30 (§ 30 LFGB)		§ 64 LFGB B82.02-	
Disperse Orange 3	730-40-5		- Germany		10	
Disperse Orange 37/59/76	12223-33-5					
Disperse Red 1	2872-52-8					
Disperse Blue 3	2475-46-9					
Disperse Blue 7	3179-90-6					
Disperse Blue 26	3860-63-7					
Disperse Blue 102	12222-97-8					
Disperse Brown 1	23355-64-8					
Disperse Orange 1	2581-69-3					
Disperse Red 11	2872-48-2					
Disperse Red 17	3179-89-3					
Disperse Yellow 1	119-15-3					
Disperse Yellow 9	6373-73-5					
Disperse Yellow 39	12236-29-2					
Disperse Yellow 49	54824-37-2					
Disperse Orange 149	85136-74-9					
Disperse Yellow 23	6250-23-3					



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Carcinogenic Dyes						
Acid Red 26	3761-53-3	EU:	Directive 2003/3/EC		DIN 54231	
Basic Red 9	569-61-9	Not detected		Analysis required		
Direct Black 38	1937-37-7		Directive 67/548/EEC		ISO 16373-3	
Direct Blue 6	2602-46-2	(Detection limit: 15 mg/kg)				
Direct Red 28	573-58-0		Law § 30 (§ 30 LFGB) – Germany		§ 64 LFGB	
Disperse Blue 1	2475-45-8				B82.02-10	
Disperse Yellow 3	2832-40-8					
Basic Violet 14	632-99-5					
Disperse Orange 11	82-28-0		ES 7266-4/2011 - Egypt			
Basic Violet 3	548-62-9					
Basic Blue 26	2580-56-5					
BLUE COLOURANTS						
Component 1: C ₃₉ H ₂₃ ClCrN ₇ O ₁₂ S ₂ Na	118685-33-9	EU: Prohibited (0,1% weight)	European REACH Regulation EC No. 1907/2006 Annex XVII	Analysis required	DIN 54231	For substances and mixtures only. Norway and Egypt also restricted.
Component 2: C ₄₆ H ₃₀ CrN ₁₀ O ₂₀ S ₂ .3Na						
CHLORINATED PHENOLS						
Trichlorophenol (TCP)	15950-66-0/933-78-8/933-75-5/95-95-4/88-06-2/609-19-8	PCP: Switzerland / Spain / Egypt / Denmark / Germany / Holland / Austria / Norway and South Korea: Not detected TeCP: China / Switzerland: Not detected (LD: 0,5mg/kg) Some European markets: PCP and TeCP:	Directive 99/51/CE ES 6535/2008 ES 7322/2011 ES 3571/2006 ES 3572/2006	Analysis required	ISO 17070	
Tetrachlorophenol (TeCP)	935-95-5/58-90-2/4901-59-3/25167-83-3	Under 3 years: Usage ban (Prohibited); LD: 0,05mg/kg Over 3 years: Less than 5 ppm TrCP (salts and esters):				
Pentachlorophenol (PCP)	87-86-5	0-3 years: Σ less than 0,2 ppm More 3 years and adults: Σ less than 2 ppm				



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analisys method	Comments
Alkylphenols and alkylphenols ethoxylates						
NP (nonylphenol)	25154-52-3/104-40-5/11066-49-2/84852-15-3	EU: NP: Maximum 1000 ppm NPEO: Maximum 100 ppm		Analisis required	SATRA TM 388	
OP (octylphenol)	27193-28-8/140-66-9/1806-26-4	Some Markets European: NP: Maximum 5 ppm OP: Maximum 5 ppm NPEO: Maximum 100 ppm OPEO: Maximum 100 ppm	Directive 2003/53/CE EC Nº 1907/2006 Annex XVII		NP and OP: Extraction with methanol; GC-MS detection	
NPEO (nonylphenoethoxylates)	9016-45-9/26027-38-3/37205-87-1/68412-54-4/127087-870				NPEO and OPEO: ISO 18254-1	
OPEO (octylphenoethoxylates)	9063-89-2/9002-93-1/9036-19-5/68987-90-6					
Arsenic and arsenic compounds	15606-95-8/7778-39-4/7440-88-2/1327-53-3	EU: 1000ppm USA/Washington: Maximum 1 ppm	Directive 67/548/EEC Directive 2006/139/EC Directive 2002/95/EC Washington Chidren's Safe Product Act	Analisis required	ISO 17378-2	

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analisys method	Comments
Organotin compounds Tributyltin (TBT) Triphenyltin (TPhT) All Organotins trisubstituted Dibutyltin (DBT) Diocetyltn (DOT) Tricichlohexanetin (TcyHT)	56573-85-4	UE: TPHT / TBT / DBT / DOT /	Directive 76/769/EC		ISO 17353	In South Korea TBT is also regulated for children's clothing (less than 24 months) for bedding and products in direct contact with the skin; DBT is restricted to children's clothing (less than 36 months).
	668-34-8	TcyHT / All organotin	European REACH Regulation EC No. 1907/2006 Annex XVII		DIN 38407	
	Vários	trisubstituted:	Japanese Law (Law No. 112)		ISO/TS 16179	
	1002-53-5	Maximum 0,1% weight of tin	Notice No. 2007-34 issued by the Korean Agency for	Analisys required	SATRA TM 277	
	15231-44-4	Canada: TBT: Prohibited	Technology and Standardization		KS K 0737	
	6056-50-4	South Korea: DBT: Maximum 1 ppm	Canada - Regulatory Prohibition of Certain Substances - SOR/2012-285			
FORMALDEHYDE	50-00-0	China: Sports Shoes - For children under 3 years of age and for direct skin contact: Less than or equal to 75 ppm For children between 3 and 14 years old and for non-contact articles: Less than or equal to 300 ppm	GB20400-2006 2009/563/CE	Analisys required	ISO 14184-1	
		China: Vulcanized footwear - Children under 3 years: Less than or equal to 75 ppm Over 3 years / adult: Less than or equal to 150 ppm			GB/T 2912.1	
		European networks and Japan: Articles for children under 3 years: Not detected (limit of detection 16mg / kg) Goods for children over 3 years: 75 ppm Products in direct contact with skin: 75 ppm Products without direct contact with the skin: 300 ppm				
		USA - Minnesota: For articles of children under 8 years: Less than 500 ppm				



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
HEAVY METALS (Soluble)		EU: Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	Directive 88/378/EEC Directive 2001/95/EC			
	7440-36-0					
	7440-38-2					
	7440-39-3					
	7440-43-9					
	7440-47-3					
	7439-92-1				EN 71-3	
	7439-97-6				GB/T 17593.1	
	7782-49-2				GB/T 17593.4	
		China: Lead (Pb): 0,2 ppm Chromium (Cr): 1,0 ppm Mercury (Hg): 0,02 ppm Arsenic (As): 0,2 ppm Cooper (Cu): 25 ppm Antimony (Sb): 30 ppm Cadmium (Cd): 0,1 ppm Chromium VI soluble: not detected (0,5ppm) Cobalt (Co): 1,0 ppm Nickel (Ni): 1,0 ppm	China: FZ/T 81014-2008 FZ/T 73025-2013	Analysis required		
	18540-29-9				ISO 105-E04	
	7440-48-4				CNS 4797-2	
	7440-02-0					
		Indonesia: Cádmio (Cd): 0,1 ppm Lead (Pb): 0,2 ppm Cooper (Cu): 25 ppm Nickel (Ni): 1,0 ppm	Indonesia: Regulation N ^o 07/M-IND/PER/2/2014			
		Taiwan: Cadmium (Cd): Prohibited				
						China: Applied for children's clothing and fabric adornments (less than 24 months). Applied for children's clothing and children's knitwear for children under 36 months and of height equal to or less than 100cm. Indonesia: for children's clothing (0-36 months). In Taiwan, cadmium is prohibited for all textile products and accessories.

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordanc e with	Recommended analysis method	Comments
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 100 ppm total 90 ppm finishing China: 100 ppm	Directive 91/338/EC Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII Statutory order no. 856 (Denmark) CPSC/CPSIA GB 30585	Analisis required	CPSC-CH-E1002 ASTM 1645-1 QB/T4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Rate of lead release (Pb)	7439-92-1	Total Lead: 500 ppm Rate of lead release of Lead: Less or equal to 0,05µg/cm ² /h (0,05 µg/g/h)	European Union REACH Regulation EC Nº 1907/2006 Annex XVII	Analisis required	DIN 54233-4	This restriction is applicable to products wich are supplied to the general public, and can be placed in the mouth by children. This restriction will apply from 1 June 2016.
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm Taiwan: Prohibited China: 100 ppm	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII GB 30585-2014 CNS 15290	Analisis required	EN 1122 CNS 4797-2 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Heavy metals (total content) – Arsenic (As)	7440-38-2	China: 100 ppm	GB 30585-2014	Analisis required	QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordanc e with	Recommended analysis method	Comments
pH of aqueous extract	----	pH = 4,0 - 7,5 pH = 6,8 - 8,0	Directive PPE CPSIA	Analisis required	DIN EN ISO 3071 JIS L 1041 AATCC 112	Parameters established in China:pH: 4,0 – 7,5 for children's products,(0-36 months); pH: 4,0 – 8,5 for products with direct contact with the skin; pH: 4.0 to 9.0 for products without direct contact with the skin. Parameters established in South Korea: pH: 4,0 – 7,5 products for babies, kids, underwear and intermediate use;pH: 4,0 – 9,0 for external and bedlinen clothes. In Egypt, the only specification is not to be below 3.5.
PERFLUOROCTANE SULPHONATE (PFOS)	2795-39-3	EU: 1µg/m ² coated fabric	Directive 2006/122/EC	Analisis required	CEN/TS 15968	* The 1999 Law of Canada Environmental Protection Act (CEPA 1999), Registration SOR 2008/178 prohibits the manufacture, use, sale, offer for sale and import of PFOS and PFOS-containing products, but does not specify limits.
PERFLUOROOCTANE ACID (PFOA) AND ITS SALTS	335-67-1/ 3825-26-1/ 335-95-5 2395-00-8/ 335-66-0 376-27-2/ 3108-24-5	Norway/ Egypt/ Switzerland/ Turkey: Maximum 0,1 % (1000 ppm) Canada*: see comments.	POPs regulation (EC) No 850/2004 Annex I			PFOA has been included in the Norwegian Product Regulation with different limits for various products.

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PESTICIDES						
2-(2,4,5-trichlorophenoxy) propionic acid, its salts and compounds (1)	93-72-1	EU and Switzerland: Pesticides 1 - 11: Not detected.	Directive 1976/464	Declaration	Extraction by organic solvente Methods EPA: 8081A/ 8151A	For Dieldrin, PCP and TeCP, South Korea restricts application to different levels for underwear and babies (under 24 months) and bedding.
2,4,5-trichlorophenoxyacetic acid, its salts and compounds (2)	93-76-5					
Aldrin (3)	309-00-2					
Chlordane (4)	57-74-9	EU: Pesticides 12 - 14: Prohibited.	Directive 91/414/EEC			
Dichloro-diphenyl-dichloro ethane (DDD) (5)	72-54-8		Directive 2009/82/EC			
Dichloro diphenyl dichloro ethylene (DDE) (6)	72-55-9					
Dichloro-diphenyl-trichloro ethane (DDT) (7)	50-29-3	Japan: Pesticide 15: Less or equal to 30 ppm				
Dieldrin (8)	60-57-1					
Endrine (9)	72-20-8					
Heptachlorine (10)	76-44-8	EU, Switzerland and Canada: Pesticides 16 - 35: Prohibited.	Canada: Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285)			
Epoxy – heptachlorine (11)	1024-57-3					
Endosulfan and its isomers (12)	115-29-7/959-98-8/33213-65-9					
Pentabromobenzene (13)	608-93-5	Some European markets: Pesticides 1 to 47, excluding 8, 13, 14, 15, 28, 29, 30, 31, 32, 34, 36: Less than 1 ppm Pesticide 8: Less than 0,01 ppm	European Union POPs Regulation (EC) Nº 850/2004 Annex I			
Hexabromobiphenyl (14)	36355-01-8					
4,6-Dichloro-7(2,4,5-trichloro-phenoxy)0-2-trifluoro methyl benz-imidazole (DTTB) (15)	63405-99-2/57648-21-2					
Hexachlorobenzene (16)	118-74-1					
Hexachlorocyclohexane (17)	608-73-1/319-84-6/319-85-7/319-86-8					
Isodrin (18)	465-73-6					
Kelevane (19)	4234-79-1					
Kepone (Chlordecone) (20)	143-50-0					
Methoxychlor (21)	72-43-5					
Mirex (22)	2385-85-5					
Perthane (23)	72-56-0					
Quintozene (24)	82-68-8					
Strobane (25)	8001-50-1					
Telodrin (Isobenzan) (26)	297-78-9					
Toxaphene (Camphechlorine) (27)	8001-35-2					
Halogenated biphenyls, including PCB (28)	1336-36-3/54469-21-9					
Halogenated terphenols, including PCT (29)						
Halogenated naphthalenes (30)						
Halogenated diarylalkanes (31)						



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PESTICIDAS						
Halogenated diphenyl methanes (32)	Various	EU, Switzerland and Canada: Pesticides 16 - 35: Prohibited.	Directive 1976/464	Declaration	Extraction by organic solvente Methods EPA: 8081A/ 8151A	
Monomethyl-dibromo-diphenyl methane (33)	Various	EU: Pesticide 36: Prohibited	Directive 91/414/EEC			
Monomethyl-dichloro-diphenyl methane (34)	99688-47-8	China: Pesticide 36: 0,1 ppm	Directive 2009/82/EC			
Monomethyl-tetrachloro-diphenyl methane (35)	81161-70-8	Some European markets: Pesticides 1 to 47, excluding 8, 13, 14, 15, 28, 29, 30, 31, 32, 34, 36: Less than 1 ppm	Switzerland: ChemRRV Art. 3 Appendix 1.1 and Appendix 2.17			
Dimethyl fumarate (36)	76253-60-6					
Lindane (37)	624-49-7					
Metamidofos (38)	58-89-9					
Monocrotofos (39)	10265-92-6	Pesticide 8: Less than 0,01 ppm	Canada: Prohibition of Certain Toxic Substances Regulations 2012 (SOR/2012-285) European Union POPs Regulation (EC) Nº 850/2004 Annex I			
Parathion (40)	6923-22-4					
Parathion metil (41)	56-38-2					
Phosphamidone (42)	298-00-0					
Captafol (43)	13171-21-6					
Chlordimeform (44)	2425-06-1					
Chlorobenzilate (45)	6164-98-3					
Dibromochloropropane (DBCP) (46)	510-15-6					
Dinoseb (47)	96-12-08					
DTTB (Timiperone) (48)	88-85-7					
Ethylene dibromide (49)	57648-21-2					
	106-93-4					



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PHTHALATES Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP) Di-n-butyl phthalate (DBP) Butyl benzyl phthalate (BBP) Diisodecyl phthalate (DIDP) Diisononyl phthalate (DINP) Di-n-octyl phthalate (DNOP)	117-81-7 84-74-2 85-68-7 26761-40-0 and 68515-49-1 28553-12-0 and 68515-48-0 117-84-0	EU: DEHP+DBP+BBP: 0,1% DINP+DIDP+DNOP: 0,1% USA e Canada: each phthalate 0,1% South Korea / Denmark/ Turkey and Egypt: 0,1% China: Footwear size ≤170mm and for children from 0-36 months: DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% Footwear size > 170mm and ≤250mm for children from 36 months to 14 years: DEHP, DBP, BBP: 0.1%	Directive 2005/84/EC Directive 93/11/EEC Regulation EC 1907/2006 Annex XVII California: AB1108 Denmark: Legal Order 786 Directive 67/548/EEC CNS 15503 (children's products) Notice of confirmation of self regulation No. 2007-34, issued by the Korean Agency for Technology and Standardization Improvement Action for Safety of Consumer Products: PL 110-787 Clause 1 of the Canadian Rules of Dangerous stuffs China: GB 30585	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	There is a market consensus pointing to a maximum of 500 ppm (0.05%) for each phthalate use in children's articles and a maximum of 1000 ppm the sum of all.
Diethyl phthalate (DEP) Dimethyl phthalate (DMP)	84-66-2 131-11-3	Taiwan: 0.1% sum of DMP and DEP	CNS 15503 (children products)	Analysis required	CNS 15138	
Various phthalates, except: DEHP, DNOP, BBP, DBP, DINP, DIDP	---	Denmark: 0,05%	Statutory Order 855	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applied for children's articles for children from 0 to 3 years.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – FABRIC AND NON FABRIC

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
1,2 - benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters (DHNUP)	68515-42-4	EU: 0,1% weight / weight per article (each)	European regulation REACH EC 1907/2006 List of candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	
1,2-benzenedicarboxylic acid, di-C6-8-alkyl ester branched, C7-rich (DIHP)	71888-89-6	EU: 0,1% weight/weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	
Bis (2-methoxyethyl) phthalate (DMEP)	117-82-8					
Diisopentyl phthalate (DIPP)	605-50-5					
N-pentyl-isopentyl phthalate (NPIPP)						
1,2- Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	776297-69-9					
Di-n-exyl phthalate (DnHP / DHP)						
Diphenyl phthalate	84777-06-0					
1,2-Benzenedicarboxylic acid. Diexyl ester, branched and linear	84-75-3 131-18-0					
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, exil and octyl diesters with ≥0.3% diexyl phthalate	68515-50-4 68515-51-5 and 68648-93-1					
Polycyclic Aromatic Hydrocarbons (PAHs)						
Benzo(a)anthracene	56-55-3	European Union: Maximum 1 ppm each	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Analysis required	AFPS GS 2014 Extraction with toluene followed by GC-MS analysis	
Benzo(a)pyrene	50-32-8					
Benzo(b)fluoranthene	205-99-2					
Benzo(e)pyrene	192-97-2					
Benzo(j)fluoranthene	205-82-3					
Benzo(k)fluoranthene	207-08-9					
Chrysene	218-01-9					
Dibenzo(a,h)anthracene	53-70-3					



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

PAINTS AND LACQUES SPECIFICATIONS

Are included in this section paints and lacquers applied by painting processes through screen printing, spray or manual.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PAINTS AND LACQUES

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
AZOCOLLOURANTS						
4 - aminodiphenyl benzidine	92-67-1 92-87-5	Reported as not detected.	Regulation EC 1907/2006 Annex XVII	Analysis required	CEN ISO 17234	
4-chloro-o-toluidine	95-69-2					
2 - naftilamine	91-59-8	EU: 30ppm (each amine)	Directive 76/769/EEC		EN 14362-1	
o-aminoazotoluene	97-56-3					
2-amino-4-nitrotoluene	99-55-8	China: 20ppm	Directive 2002/61/EC		EN 14362-3	
2.4 diaminoisole	615-05-4					
4.4 diaminodiphenylmethane	101-77-9		Amendments: (2002/61/EC 2003/03/EC; 2004/21/EC)		GB/T 17592-2011	
3,3-dichlorobenzidine	91-94-1					
3,3 - dimethoxybenzidine (o-dianisidine)	119-90-4		GB/T 17592 – 2011			
3,3 - dimethylbenzidine (o-tolidine)	119-93-7					
3,3 - dimethyl-4, 4'-diaminodiphenylmethane	838-88-0		Directive 67/548/EEC			
p-chloroaniline	106-47-8					
p-cresidine	120-71-8		GB 18401			
4,4-methylene-bis (2 - chloroaniline)	101-14-4 101-80-4					
4.4 - oxydianiline	139-65-1					
4.4 - thiodianiline	95-80-7					
2,4 - diaminotoluene	95-53-4					
o-toluidine	137-17-7					
2,4,5-trimethylaniline	90-04-0					
o-anisidine	60-09-3					
p-amino-azobenzene	95-68-1					
2,4-xylidine	87-62-7					
2,6-xylidine						



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PAINTS AND LACQUES

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
HEAVY METALS (Soluble metals)	7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	EU: Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	Directive 2001/95/EC Directive 88/378/EEC	Analisis required	EN 71-3 ISO 105/E04	
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 100 ppm China: 100 ppm	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII Statutory order nº 856 (Denmark) CPSC/CPSIA GB 30585	Analisis required	ASTM 1645 CPSC-CH-E1002 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Rate of lead release (Pb)	7439-92-1	Total Lead: 500 ppm Rate of lead release of Lead: Less or equal to 0,05µg/cm ² /h (0,05 µg/g/h)	European Union REACH Regulation EC Nº 1907/2006 Annex XVII	Analisis required	DIN 54233-4	This restriction is applicable to products wich are supplied to the general public, and can be placed in the mouth by children. This restriction will apply from 1 June 2016.

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PAINTS AND LACQUES

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm	Directive 91/338/EC	Analysis required	EN 1122	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
		Taiwan: Prohibited	European Union REACH Regulation EC No 1907/2006 Annex XVII		CNS 4797-2	
		China: 100 ppm	GB 30585-2014		QB/T 4340	
		South Korea: 75 ppm (surfaces coatings and printing)	CNS 15290			
Organotin compounds		UE:	Directive 76/769/EC	Analysis required		In South Korea TBT is also regulated for children's clothing (less than 24 months) for bedding and products in direct contact with the skin; DBT is restricted to children's clothing (less than 36 months).
Tributyltin (TBT)	56573-85-4	TPhT / TBT / DBT / DOT / TcyHT / All organotin	European REACH Regulation EC No. 1907/2006 Annex XVII		ISO 17353	
Triphenyltin (TPhT)	668-34-8	trisubstituted: Maximum 0,1% weight of tin	Japanese Law (Law No. 112)		DIN 38407	
All Organotins trisubstituted	Vários		Notice No. 2007-34 issued by the Korean Agency for Technology and Standardization		ISO/TS 16179	
Dibutyltin (DBT)	1002-53-5	Canada: TBT: Prohibited	Canada - Regulatory Prohibition of Certain Substances - SOR/2012-285		SATRA TM 277	
Diocetyl tin (DOT)	15231-44-4	South Korea: DBT: Maximum 1 ppm			KS K 0737	
Trichlohexanetin (TcyHT)	6056-50-4					



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PAINTS AND LACQUES

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PHTHALATES		EU: DEHP+DBP+BBP: 0,1% DINP+DIDP+DNOP: 0,1%	Directive 2005/84/EC Directive 93/11/EEC Regulation EC 1907/2006 Annex XVII California: AB1108	Analysis required	CPSC-CH-C1001-09.3	There is a market consensus pointing to a maximum of 500 ppm (0.05%) for each phthalate use in children's articles and a maximum of 1000 ppm the sum of all.
Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP)	117-81-7					
Di-n-butyl phthalate (DBP)	84-74-2	USA e Canada: each phthalate 0,1%	Denmark: Legal Order 786		GB/T 22048-2008	
Butyl benzyl phthalate (BBP)	85-68-7	South Korea /	Directive 67/548/EEC		BS EN 14372	
Diisodecyl phthalate (DIDP)	26761-40-0 and 68515-49-1	Denmark/ Turkey and	CNS 15503 (children's products)			
Diisononyl phthalate (DINP)	28553-12-0 and 68515-48-0	Egypt: 0,1%	Notice of confirmation of self regulation No. 2007-34, issued by the Korean Agency for Technology and Standardization			
Di-n-octyl phthalate (DNOP)	117-84-0	China: Footwear size ≤170mm and for children from 0-36 months: DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% Footwear size > 170mm and ≤250mm for children from 36 months to 14 years: DEHP, DBP, BBP: 0.1%	Improvement Action for Safety of Consumer Products: PL 110-787 Clause 1 of the Canadian Rules of Dangerous stuffs China: GB 30585			
Diethyl phthalate (DEP)	84-66-2	Taiwan:		Analysis required	CNS 15138	
Dimethyl phthalate (DMP)	131-11-3	0.1% sum of DMP and DEP	CNS 15503 (children products)			



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PAINTS AND LACQUES

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Various phthalates, except: DEHP, DNOP, BBP, DBP, DINP, DIDP	---	Denmark: 0,05%	Statutory Order 855	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applied for children's articles for children from 0 to 3 years.
1,2 - benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters (DHNUP)	68515-42-4	EU: 0,1% weight / weight per article (each)	European regulation REACH EC 1907/2006 List of candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	
1,2-benzenedicarboxylic acid, di-C6-8-alkyl ester branched, C7-rich (DIHP) Bis (2-methoxyethyl) phthalate (DMEP) Diisopentyl phthalate (DIPP) N-pentyl-isopentyl phthalate (NPIPP) 1,2- Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP) Di-n-etyl phthalate (DnHP / DHP) Diphenyl phthalate 1,2-Benzenedicarboxylic acid. Diethyl ester, branched and linear 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, exil and octyl diesters with ≥0.3% diethyl phthalate	71888-89-6 117-82-8 605-50-5 776297-69-9 84777-06-0 84-75-3 131-18-0 68515-50-4 68515-51-5 and 68648-93-1	EU: 0,1% weight/weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	

ATTITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PAINTS AND LACQUES

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
VOLATILE ORGANIC COMPOUNDS (VOCs)	Toluene /	108-88-3	EU: 1 ppm China: 20g/m ² USA: 1 ppm	Directive 76/769/EEC	Analisis required	ISO 15680 GC/MS
	Chlorotoluenes	95-73-8				
		118-69-4				
		95-49-8	EU: 1 ppm China: 20g/m ² USA: 1 ppm	Directive 2005/59/EC	Analisis required	ISO 15680 GC/MS
	Benzene /	120-82-1	EU: 1 ppm China: 20g/m ²	Washington Children's Safety Regulations	Analisis required	GB 21550 item 5.5
	Chlorobenzenes	71-43-2				
		100-41-4				
		118-74-1				
		608-93-5				
		87-61-6				
		108-70-3				
		17700-09-3				
		95-50-1	EU: 1 ppm China: 20g/m ²	GB 21550	Analisis required	DIN 54232
	Xylene (all isomers)	1330-20-7				
	o-Xylene					
	m-Xylene	95-47-6				
	p-Xylene	108-38-3				
		106-42-3				

ATITUDE
100%
QUALIDADE



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

PLASTISOL SPECIFICATIONS

Included in this item PVC basis resins and plasticizers.

The restrictive substances listed at the following chart must not be presente above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.

ATITUDE
100%
QUALIDADE



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTISOL

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
CHLORALKANES C10 - C13 (Short chain chlorinated paraffins)	85535-84-8	EU: 1000 ppm (0,1%)	Directive 2002/45/EC French Regulation ECECO828052A POPs regulation EC No. 850/2004 Annex I, amended by Regulation (EU) 2015/2030	Analisis required	ISO 18219	Listed as candidate on list of very high concern substance (SVCH). POPs: Articles should not contain short chain chlorinated paraffins above 0.15% by weight.
CHLORALKANES C14 - C17 (Medium chain chlorinated paraffins)	85535-85-9	EU: 1000 ppm (0,1%)	Directive 2002/45/EC POPs regulation EC No. 850/2004 Annex I, amended by Regulation (EU) 2015/2030	Analisis required	ISO 18219	
PHthalATES Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP) Di-n-butyl phthalate (DBP) Butyl benzyl phthalate (BBP) Diisodecyl phthalate (DIDP) Diisononyl phthalate (DINP) Di-n-octyl phthalate (DNOP)	117-81-7 84-74-2 85-68-7 26761-40-0 and 68515-49-1 28553-12-0 and 68515-48-0 117-84-0	EU: DEHP+DBP+BBP: 0,1% DINP+DIDP+DNOP: 0,1% USA e Canada: each phthalate 0,1% South Korea / Denmark/ Turkey and Egypt: 0,1% China: Footwear size ≤170mm and for children from 0-36 months: DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1% Footwear size > 170mm and ≤250mm for children from 36 months to 14 years: DEHP, DBP, BBP: 0.1%	Directive 2005/84/EC Directive 93/11/EEC Regulation EC 1907/2006 Annex XVII California: AB1108 Denmark: Legal Order 786 Directive 67/548/EEC CNS 15503 (children's products) Notice of confirmation of self regulation No. 2007-34, issued by the Korean Agency for Technology and Standardization Improvement Action for Safety of Consumer Products: PL 110-787 Clause 1 of the Canadian Rules of Dangerous stuffs China: GB 30585	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	There is a market consensus pointing to a maximum of 500 ppm (0.05%) for each phthalate use in children's articles and a maximum of 1000 ppm the sum of all.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTISOL

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
Diethyl phthalate (DEP) Dimethyl phthalate (DMP)	84-66-2 131-11-3	Taiwan: 0.1% sum of DMP and DEP	CNS 15503 (children products)	Analysis required	CNS 15138	
Various phthalates, except: DEHP, DNOP, BBP, DBP, DINP, DIDP	various	Denmark: 0,05%	Statutory Order 855	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applied for children's articles for children from 0 to 3 years.
1,2 - benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters (DHNUP)	68515-42-4	EU: 0,1% weight / weight per article (each)	European regulation REACH EC 1907/2006 List of candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	
1,2-benzenedicarboxylic acid, di-C6-8-alkyl ester branched, C7-rich (DIHP) Bis (2-methoxyethyl) phthalate (DMEP) Diisopentyl phthalate (DIPP) N-pentyl-isopentyl phthalate (NPIPP) 1,2- Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP) Di-n-exyl phthalate (DnHP / DHP) Diphenyl phthalate 1,2-Benzenedicarboxylic acid. Diexyl ester, branched and linear 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, exil and octyl diesters with ≥0.3% diexyl phthalate	71888-89-6 117-82-8 605-50-5 776297-69-9 84777-06-0 84-75-3 131-18-0 68515-50-4 68515-51-5 and 68648-93-1	EU: 0,1% weight/weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTISOL

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
HEAVY METALS (Soluble metals)	7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	Directive 2001/95/EC Directive 88/378/EEC	Analisis required	EN 71-3 ISO 105/E04	
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 100 ppm China: 100 ppm	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII Statutory order nº 856 (Denmark) CPSC/CPSIA GB 30585	Analisis required	CPSC-CH-E1002 ASTM 1645-1 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Rate of lead release (Pb)	7439-92-1	Total Lead: 500 ppm Rate of lead release of Lead: Less or equal to 0,05µg/cm ² /h (0,05 µg/g/h)	European Union REACH Regulation EC Nº 1907/2006 Annex XVII	Analisis required	DIN 54233-4	This restriction is applicable to products wich are supplied to the general public, and can be placed in the mouth by children. This restriction will apply from 1 June 2016.
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm Taiwan: Prohibited China: 100 ppm South Korea: 75 ppm (surfaces coatings and printing)	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII GB 30585-2014	Analisis required	EN 1122 CNS 4797-2 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTISOL

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
NITROSAMINES						
N-nitrosodimethylamine (NMDA)	62-75-9	EU: 0,5 ppm	Directive 76/769/EEC	Analisis required	BS EN 12868	GB 30585-2014: Only applicable to rubber parts of infant shoes
N-nitrosodimethylamine (NDEA)	55-18-5		Directive 93/11/EEC		GB/T 24153	
Nitrosodi N-propylamine (NDPA)	621-64-7	China: not detected	European Eco-Label			
N-nitrosodibutylamine (NDBA)	924-16-3	(detection limit	China: GB 25036-2010, GB		DIN EN ISO 71-12	
N-nitrosopepiridina (NPIP)	100-75-4	0.5 mg / kg)	25038-2010, GB 30585-2014			
N-Nitrosopyrrolidine (NPYR)	930-55-2					
N-nitrosomorpholine (NMOR)	59-89-2					
N-nitroso-N-methylaniline	614-00-6					
N-nitroso-N-ethylaniline	612-64-6					
Organotin compounds						
Tributyltin (TBT)	56573-85-4	UE: TPHT / TBT / DBT / DOT	Directive 76/769/EC	Analisis required	ISO 17353	In South Korea TBT is also regulated for children's clothing (less than 24 months) for bedding and products in direct contact with the skin; DBT is restricted to children's clothing (less than 36 months).
Triphenyltin (TPHT)	668-34-8	/ TcyHT / All organotin trisubstituted:	European REACH Regulation EC No. 1907/2006 Annex XVII		DIN 38407	
All Organotins trisubstituted	Vários	Maximum 0,1% weight of tin	Japanese Law (Law No. 112)		ISO/TS 16179	
Dibutyltin (DBT)	1002-53-5		Notice No. 2007-34 issued by the Korean Agency for Technology and Standardization		SATRA TM 277	
Diocetyl tin (DOT)	15231-44-4	Canada: TBT: Prohibited	Canada - Regulatory Prohibition of Certain Substances -		KS K 0737	
Tricichlohexanetin (TcyHT)	6056-50-4	South Korea: DBT: Maximum 1 ppm	SOR/2012-285			
Polycyclic Aromatic Hydrocarbons (PAHs)						
Benzo(a)anthracene	56-55-3	European Union: Maximum 1 ppm each	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII	Analisis required	AFPS GS 2014 Extraction with toluene followed by GC-MS analysis	
Benzo(a)pyrene	50-32-8					
Benzo(b)fluoranthene	205-99-2					
Benzo(e)pyrene	192-97-2					
Benzo(j)fluoranthene	205-82-3					
Benzo(k)fluoranthene	207-08-9					
Chrysene	218-01-9					
Dibenzo(a,h)anthracene	53-70-3					



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PLASTISOL

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
AZOCOLLOURANTS		Reported as non detected.	European Union REACH Regulation (EC) No. 1907/2006 Annex XVII		CEN ISO 17234	
4 - benzidine aminodifenil	92-67-1					
4-chloro-o-toluidine	92-87-5					
2 - o-naftilamine aminoazotoluene	95-69-2	EU: 30ppm				
2-amino-4-nitrotoluene	91-59-8	(each amine)	Directive 76/769/EEC	Analisis required	EN 14362-1	
2.4 diaminoanisole	97-56-3				EN 14362-3	
4.4 diaminodiphenylmethane	99-55-8	China: 20ppm	Directive 2002/61/EC			
3,3-dichlorobenzidine	615-05-4					
3,3 - dimethoxybenzidine (o-dianisidine)	101-77-9		Amendments:			
	91-94-1		(2002/61/EC;			
3,3 - dimetillbenzidina (o-tolidine)	119-90-4		2003/03/EC;			
3,3 - dimethyl-4, 4'-	119-93-7		2004/21/EC)			
diaminodiphenylmethane	838-88-0					
p-chloroaniline	106-47-8		GB/T 17592 – 2011			
p-cresidine	120-71-8					
4,4-methylene-bis (2 - chloroaniline)	101-14-4		Directive 67/548/EEC			
4.4 - oxydianiline	101-80-4					
4.4 - thiodianiline	139-65-1		GB 18401			
2,4 - diaminotoluene	95-80-7					
o-toluidine	95-53-4					
2,4,5-trimethylaniline	137-17-7					
o-anisidine	90-04-0					
p-amino-azobenzene	60-09-3					
2,4-xylydine	95-68-1					
2,6-xylydine	87-62-7					



Number: **References:** NBR ISO 9001:2015 – REQUISITE 7.2.1 and 7.2.2

Goal: Standardization of specifications and analysis for testing of restrictive substances.

PIGMENTS SPECIFICATIONS

Included in this item all pigments used in manufacture.

The restrictive substances listed at the following chart must not be present above the maximum level of acceptance specified.

Note: Costs with recall and rework of the products (articles) that exceed those limits will be charged from suppliers.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PIGMENTS

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
PHTHALATES		EU: DEHP+DBP+BBP: 0,1% DINP+DIDP+DNOP: 0,1%	Directive 2005/84/EC Directive 93/11/EEC Regulation EC 1907/2006 Annex XVII	Analisis required	CPSC-CH-C1001-09.3	There is a market consensus pointing to a maximum of 500 ppm (0.05%) for each phthalate use in children's articles and a maximum of 1000 ppm the sum of all. Applicable for polymeric pigments.
Di-2-ethylhexyl phthalate (DEHP) / Di octyl phthalate (DOP)	117-81-7	USA e Canada: each phthalate 0,1%	California: AB1108 Denmark: Legal Order 786		GB/T 22048-2008	
Di-n-butyl phthalate (DBP) Butyl benzyl phthalate (BBP) Diisodecyl phthalate (DIDP)	84-74-2 85-68-7 26761-40-0 and 68515-49-1	South Korea / Denmark / Turkey and Egypt: 0,1%	Directive 67/548/EEC CNS 15503 (children's products) Notice of confirmation of self regulation No. 2007-34, issued by the Korean Agency for Technology and Standardization		BS EN 14372	
Diisononyl phthalate (DINP)	28553-12-0 and 68515-48-0	China: Footwear size ≤170mm and for children from 0-36 months: DEHP, DBP, BBP, DINP, DIDP, DNOP: 0.1%	Improvement Action for Safety of Consumer Products: PL 110-787 Clause 1 of the Canadian Rules of Dangerous stuffs China: GB 30585			
Di-n-octyl phthalate (DNOP)	117-84-0	Footwear size > 170mm and ≤250mm for children from 36 months to 14 years: DEHP, DBP, BBP: 0.1%				
Diethyl phthalate (DEP) Dimethyl phthalate (DMP)	84-66-2 131-11-3	Taiwan: 0.1% sum of DMP and DEP	CNS 15503 (children products)	Analisis required	CNS 15138	Applicable for polymeric pigments.
Various phthalates, except: DEHP, DNOP, BBP, DBP, DINP, DIDP	various	Denmark: 0,05%	Statutory Order 855	Analisis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applied for children's articles for children from 0 to 3 years. Applicable for polymeric pigments.



RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PIGMENTS

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
1,2 - benzenedicarboxylic acid, di-C7-11 - branched and linear alkyl esters (DHNUP)	68515-42-4	EU: 0,1% weight / weight per article (each)	European regulation REACH EC 1907/2006 List of candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applicable for polymeric pigments.
1,2-benzenedicarboxylic acid, di-C6-8-alkyl ester branched, C7-rich (DIHP)	71888-89-6	EU: 0,1% weight/ weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applicable for polymeric pigments.
Bis (2-methoxyethyl) phthalate (DMEP)	117-82-8					
Diisopentyl phthalate (DIPP)	605-50-5					
N-pentyl-isopentyl phthalate (NPIPP)						
1,2- Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP)	776297-69-9					
Di-n-exyl phthalate (DnHP / DHP)	84777-06-0	EU: 0,1% weight/ weight per article (each)	European REACH regulation EC 1907/2006 List of Candidates	Analysis required	CPSC-CH-C1001-09.3 GB/T 22048-2008 BS EN 14372	Applicable for polymeric pigments.
Diphenyl phthalate	84-75-3					
1,2-Benzenedicarboxylic acid. Diexyl ester, branched and linear	131-18-0					
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mix decyl, exil and octyl diesters with ≥0.3% diexyl phthalate	68515-50-4 68515-51-5 and 68648-93-1					



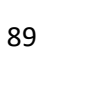
RESTRICTED SUBSTANCES' SPECIFICATIONS IN MATERIALS – PIGMENTS

Restricted substance	CAS	Location / Level of acceptance	Reason for restriction	Accordance with	Recommended analysis method	Comments
HEAVY METALS (Soluble metals)	7440-36-0 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7439-92-1 7439-97-6 7782-49-2	Antimony (Sb): 60ppm Arsenic (As): 25ppm Barium (Ba): 1000ppm Cadmium (Cd): 75ppm Chromium (Cr): 60ppm Lead (Pb): 90ppm Mercury (Hg): 60ppm Selenium (Se): 500ppm	Directive 2001/95/EC Directive 88/378/EEC	Analisis required	EN 71-3 ISO 105/E04	
Heavy metals (total content) – Lead (Pb)	7439-92-1	EU: 90 ppm Denmark: 100 ppm USA: 100 ppm China: 100 ppm	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII Statutory order nº 856 (Denmark) CPSC/CPSIA GB 30585	Analisis required	CPSC-CH-E1002 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).
Rate of lead release (Pb)	7439-92-1	Total Lead: 500 ppm Rate of lead release of Lead: Less or equal to 0,05µg/cm ² /h (0,05 µg/g/h)	European Union REACH Regulation EC Nº 1907/2006 Annex XVII	Analisis required	DIN 54233-4	This restriction is applicable to products wich are supplied to the general public, and can be placed in the mouth by children. This restriction will apply from 1 June 2016.
Heavy metals (total content) – Cadmium (Cd)	7440-43-9	EU: 100 ppm Taiwan: Prohibited China: 100 ppm South Korea: 75 ppm (surfaces coatings and printing)	Directive 91/338/EC European Union REACH Regulation EC Nº 1907/2006 Annex XVII GB 30585-2014	Analisis required	EN 1122 CNS 4797-2 QB/T 4340	Restriction in China applied to children's shoes, for children under 14 years and footwear size less than 250 mm (excluding children's rubber footwear).



- Attachment A – Recommended laboratories
- Attachment B – Cautions
- Attachment C – Recommended sites

ATITUDE
100%
QUALIDADE



Attachment A

Recommended laboratories

IBTeC - Instituto Brasileiro de Tecnologia do Couro, Calçado e Artefatos

Araxá Street, 750 – CEP: 93334-000

Ideal - Novo Hamburgo - Rio Grande do Sul – Brasil

Phone: +55 51 3553-1000 / Fax: 3553-1001

E mail: laboratorio@ibtec.org.br

BLC Leather Technology Centre Ltd, Northampton, NN3 6JD, UK

Tel: +44 (0) 1604 679932, Fax +44 (0) 1604 679998

Email: info@blcleathertech.com

SATRA, SATRA House, Rockingham Road, Kettering, Northampton, NN16 9JH, UK

Tel: +44 (0) 1536 410000, Fax: +44 (0) 1536 410626

E mail: info@satra.co.uk

TÜV Produkt und Umwelt GmbH, Am Grauen Stein, D-51105 Köln, Germany

Tel: +49 221 8062958 / +49 221 8063371 / +49 221 8062062, Fax: +49 221 8061464

E mail: internet@de.tuv.com

INTERTEK Testing Services

91 Rue Du General De Gaulle, 27100 Le Vaudreuil, France

Tel: +33 232 09 3636, Fax: +33 232 09 3637

Centre Court, Meridian Business Park, Leicester LE19 1WD, UK.

Tel: +44 (0) 116 263 0330, Fax: +44 (0) 116 263 0311/12

Deutschland GmbH, Berliner Str. 207 (Labtest), 65205 Wiesbaden - Germany

Tel: +49 (611)7165700, Fax: +49 (611)7165789

SGS do Brasil

Andrômeda Avenue, 832, Alphaville Conde II

Barueri – São Paulo – Brasil – CEP 06473-000

Tel: +55 11 3883-8800

www.sgsgroup.com.br

ATITUDE
100%
QUALIDADE



Attachment B – Cautions

Some care that must be taken to production, handling, packaging and storage of the samples

- The sample sent for analysis must be representative of the lot to which it belongs;
- The sample handling should be done carefully, avoiding contact with possible sources of contamination. Be careful in production lines, process steps, injection products, etc.;
- The packaging of the sample should be performed in inert and free of possible contaminants equipment;
- Where possible, the samples should be packed separately according to the type of sample, avoiding cross-contamination between samples.
- The sample must be stored and transported to the laboratory for analysis in an appropriate place, avoiding any kind of change in the characteristics of the same;
- During the production, have maximum care about contamination from machinery and equipment, eg, molds, metal bath tubs, etc ...

ATITUDE
100%
QUALIDADE



Attachment C

Recommended sites

http://echa.europa.eu/home_pt.asp

<http://www.apparelandfootwear.org/Resources/RestrictedSubstances.asp>

http://ec.europa.eu/enterprise/sectors/chemicals/reach/index_en.htm

http://ec.europa.eu/environment/chemicals/reach/reach_intro.htm

ATITUDE
100%
QUALIDADE

