

# SISSY-BOY

SISSY-BOY CHEMICAL RESTRICTIONS FOOD CONTACT PRODUCTS

VERSION 1.0

APRIL 2024

SISSY-BOY 2024

# SISSY-BOY

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## INTRODUCTION

Dear Supplier,

### General

This document concerns Chemical Restrictions for Food Contact Products. Each limit is valid for homogeneous parts of the concerned product if not otherwise stated. Test methods are specified in relevant part in document. In case of undated test method, the latest version is valid

### Commitment

The Supplier commits to comply with SISSY-BOY's Chemical Restriction as mentioned in the SISSY-BOY Restricted Substances List RSL and this Food Contact Products List. It is the Supplier's responsibility to assure compliance with SISSY-BOY Chemical Restrictions and to inform all their upstream suppliers and subcontractors about the content of SISSY-BOY Chemical Restrictions.

By accepting SISSY-BOY Chemical Restrictions, each Supplier acknowledges that SISSY-BOY reserves the right to:

- Inspect and test any product, any part of production and/or packaging, by any listed or appropriate method, at any time or at any stage of production.
- Cancel the order, or, if the products are already delivered, return the products to the Supplier if the product, production and/or packaging do not correspond to the SISSY-BOY Chemical Restrictions.
- Hold the Supplier responsible for any damage caused by the ordered product if the product, production and/or packaging do not correspond to the SISSY-BOY Chemical Restrictions.
- Receive the Safety Data Sheets (SDS) for all substances and preparations (dyes, colorants, solvents, chemicals etc.) used in the production of a specific Order.

In the case of contradictory test results, SISSY-BOY test results will prevail

Should you have any questions, please do not hesitate to contact:

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# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
DEFINITIONS		
Concentration limit	The substance must not be present in the product at concentrations above this limit.	
Not Detected	The substance must not be present in the finished product at concentrations above the analytical reporting limit.	
Usage Ban	The substance must not be used in production and it must not be added to the product. <sup>1</sup>	
Organoleptic	Refers to any sensory property of a product, including smell, taste, color and feel.	
Substances defined as hazardous due to intrinsic properties	Persistent, bioaccumulative and toxic (PBT), very persistent and very bioaccumulative (vPvB), carcinogenic, mutagenic and toxic for reproduction (CMR), endocrine disruptors (ED) or equivalent concern	
ABBREVIATIONS		
CAS no	Chemical Abstracts Service number, an identification number for chemicals in this database.	
CFR	Code of Federal Regulations	
GMP	Good Manufacturing Practises	
mg/kg	Milligram per kilogram, which is the same as parts per million	
Percentage	Percentage is weight by weight, % w/w	
PFAS	Perfluoroalkyl and polyfluoroalkyl substances: Fluorinated substances that contain at least one fully fluorinated methyl or methylene carbon atom (without any hydrogen, chlorine, bromine or iodine atoms attached to it)	
PFC's	Perfluorinated and polyfluorinated chemicals	
REACH	Registration, Evaluation, Authorization and restriction of Chemicals	
SML	Specific Migration Limit in food or in food simulants.	
SML(T)	Total Specific Migration Limit in food or in food simulants. SML(T) is the maximum permitted amount of a given substance originating from the release of several given substances from a material or article into food or food simulants.	
REQUIREMENTS - ALL FOOD CONTACT MATERIAL		
If a group of substances is marked with an asterisk* in the tables below, each included substance is specified in Appendix.		
Requirement/Restricted substance	Limit/Requirement	
Food Contact Products Framework Regulation and GMP	All Food Contact products must comply with EU Framework Regulation concerning Food Contact Products no 1935/2004 <sup>2</sup> and all regulations, directives and amendments under this framework regulation <sup>3</sup> . All Food Contact products must comply with Good Manufacturing Practice, Regulation 2023/2006 <sup>4</sup> .	
<sup>1</sup> Impurities at low concentrations of these substances may be accepted only if technically unavoidable due to e.g. raw materials, formation in the manufacturing process, storage or packaging		
<sup>2</sup> Regulation (EC) No 1935/2004 on materials and articles intended to come into contact with food		
<sup>3</sup> <a href="http://ec.europa.eu/food/food/chemicalsafety/foodcontact/index_en.htm">http://ec.europa.eu/food/food/chemicalsafety/foodcontact/index_en.htm</a>		
<sup>4</sup> <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02006R2023-20080417">https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:02006R2023-20080417</a>		

# SISSY-BOY

## SISSY-BOY chemical restrictions food contact products version 1.0

### REQUIREMENTS - ALL FOOD CONTACT MATERIAL CONTINUED

Requirement	Limit
SISSY-BOY Production and Documentation Requirements for Food Contact products	Production must follow SISSY-BOY Production and Documentation Requirements for Food Contact products which includes requirements for good manufacturing practices (GMP), testing of food contact products, test methods, documentation and declaration of compliance.
Substances of very high concern (SVHC) <sup>5</sup>	1000 mg/kg, except if lower limit applies as per other parts of this document. Check the ECHA website for the updated list
Substances defined in REACH Article 57 <sup>6</sup> as hazardous due to the intrinsic properties: - Carcinogenic, Mutagenic or toxic to Reproduction (CMR) category 1A/1B, - Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB), - Causing probable serious effects to human health or the environment of an equivalent level of concern as those above (e.g. endocrine disrupters)	1000 mg/kg, except if lower limit applies as per other parts of this document.
Sensory/ organoleptic properties	No change in sensory properties (smell and/or taste) of food. Shall be controlled with Sensory analysis. Not worse than Grade 2.5

<sup>5</sup> [http://echa.europa.eu/chem\\_data/authorisation\\_process/candidate\\_list\\_table\\_en.asp](http://echa.europa.eu/chem_data/authorisation_process/candidate_list_table_en.asp)

<sup>6</sup> <http://eur-lex.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02006R1907-20150601&from=EN>

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0	
REQUIREMENTS - ALL FOOD CONTACT MATERIAL CONTINUED	
Restricted materials/substance	Limit
Polycarbonate (PC) Plastic	Usage ban
Polystyrene (PS) Plastic	Usage ban
Acrylonitrile butadiene styrene (ABS)	Usage ban
Acrylonitrile Styrene/Styrene Acrylonitrile (AS/SAN)	Usage ban
Styrene based thermoplastic rubber/elastomer (TPR & TPE)	Usage ban
Other Styrene based (co)polymers	Usage ban
Polyvinylchloride (PVC)	Usage ban
Recycled rubber	Usage ban
Recycled plastic	Usage ban
Bisphenol A (BPA)	Usage ban
Bisphenol S (BPS)	Usage ban
Bisphenol F (BPF)	Usage ban
Biocides of all kinds (e.g. wood preservatives, antifungi functions, in-can preservatives etc.)	Are not allowed to be used without approval by SISSY-BOY <sup>7</sup>
Polychlorinated biphenyls (PCB)	Usage ban
Azo dyes and pigments*	Usage ban
Per- and poly-fluorinated chemicals (PFCs/PFASs)*	Usage ban
Phthalates*	Usage ban
Asbestos	Usage ban
Nanomaterials:“‘Nanomaterial’ means a natural, incidental or manufactured material containing particles, in an unbound state or as an aggregate or as an agglomerate and where, for 50% or more of the particles in the number size distribution, one or more external dimensions is in the size range 1 nm-100 nm.” <sup>8</sup>	Usage ban

<sup>7</sup> Contact your SISSY-BOY buyer

<sup>8</sup>European commission recommendation on the definition of nanomaterial (2011/696/EU), Official Journal of the European Union, 20.10.2011.

# SISSY-BOY

## SISSY-BOY chemical restrictions food contact products version 1.0

### CERAMIC

#### Category 1 Flatware

Articles which cannot be filled and articles which can be filled where the internal depth  $\leq 25$  mm CERAMIC

Restricted substance	Limit/Requirement	Test method
Lead (Pb)	0.7 mg/dm <sup>2</sup>	EN 1388-1
Cadmium (Cd)	0.07 mg/dm <sup>2</sup>	
Zinc (Zn)	3 mg/article	
Barium (Ba)	1 mg/article	
Antimony (Sb)	1 mg/article	
Cobalt (Co)	0.02 mg/kg	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours, 3 successive migrations and take the 3 <sup>rd</sup> migration results.
Aluminium (Al)	1 mg/kg	
Arsenic (As)	0.002 mg/kg	

#### Category 2

Articles that can be filled

Lead (Pb)	0.5 mg/l	EN 1388-1
Cadmium (Cd)	0.2 mg/l	
Zinc (Zn)	3.0 mg/article (internal volume $\leq 1$ L) or, 3.0 mg/l (internal volume $> 1$ L)	
Barium (Ba)	1.0 mg/article (internal volume $\leq 1$ L) or, 1.0 mg/l (internal volume $> 1$ L)	
Antimony (Sb)	1.0 mg/article (internal volume $\leq 1$ L) or, 1.0 mg/l (internal volume $> 1$ L)	
Cobalt (Co)	0.02 mg/kg	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours, 3 successive migrations and take the 3 <sup>rd</sup> migration results.
Aluminium (Al)	1 mg/kg	
Arsenic (As)	0.002 mg/kg	

#### Category 3

Cooking ware; packaging and storage vessels having a capacity  $>$  than 3L

Lead (Pb)	0.5 mg/l	EN 1388-1
Cadmium (Cd)	0.1 mg/l (for storage ware $> 3$ l) 0.05 mg/l (for cooking ware)	
Zinc (Zn)	3.0 mg/article (internal volume $\leq 1$ L) or, 3.0 mg/l (internal volume $> 1$ L)	
Barium (Ba)	1.0 mg/article (internal volume $\leq 1$ L) or, 1.0 mg/l (internal volume $> 1$ L)	
Antimony (Sb)	1.0 mg/article (internal volume $\leq 1$ L) or, 1.0 mg/l (internal volume $> 1$ L)	
Cobalt (Co)	0.02 mg/l	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours, 3 successive migrations and take the 3 <sup>rd</sup> migration results.
Aluminium (Al)	1 mg/kg	
Arsenic (As)	0.002 mg/kg	

# SISSY-BOY

## SISSY-BOY chemical restrictions food contact products version 1.0

### CERAMIC CONTINUED

Drinking rim

Restricted substance	Limit/Requirement	Test method
Cadmium (Cd)	0.2 (mg/article) and 0.07 mg/dm <sup>2</sup>	EN 1388-1, specify the articles lip and rim surface area to calculate mg/dm <sup>2</sup> (Danish Order on Food Contact Materials n. 681 of 25/05/2020) <sup>9</sup>
Lead (Pb)	2 (mg/article) and 0.8 mg/dm <sup>2</sup>	
Cobalt (Co)	0.05 mg/article	Directive 84/500/EEC (ICPMS), DIN EN 1388-1
Zinc (Zn)	3.0 mg/article	
Barium (Ba)	1.0 mg/article	
Antimony (Sb)	1.0 mg/article	

<sup>9</sup> Specify the articles lip and rim surface area in test report to calculate mg/dm<sup>2</sup> (Danish Order on Food Contact Materials n. 681 of 25/05/2020) Fødevarekontaktmaterialebekendtgørelsen (retsinformation.dk)



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GLASS		
Restricted substance	Limit/Requirement	Test method
Global migration	8 mg/dm <sup>2</sup> or, 50 mg/kg	Decreto Ministeriale del 21/3/1973, Capo V – Oggetti di Vetro
Category 1 Flatware Articles which cannot be filled and articles which can be filled where the internal depth ≤ 25 mm CERAMIC		
Lead (Pb)	0.8 mg/dm <sup>2</sup>	ISO 6486-1
Cadmium (Cd)	0.07 mg/dm <sup>2</sup>	
Cobalt (Co)	0.02 mg/kg	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours, 3 successive migrations and take the 3 <sup>rd</sup> migration results.
Aluminium (Al)	1 mg/kg	
Arsenic (As)	0.002 mg/kg	
Category 2 Articles that can be filled		
Lead (Pb)	0.5 mg/l	ISO 6486-1 and ISO 8391-1 (ceramic cookware, test method; release of lead and cadmium)
Cadmium (Cd)	0.2 mg/l	
Cobalt (Co)	0.02 mg/kg	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours, 3 successive migrations and take the 3 <sup>rd</sup> migration results.
Aluminium (Al)	1 mg/kg	
Arsenic (As)	0.002 mg/kg	
Category 3 Cooking ware; packaging and storage vessels having a capacity > than 3L		
Lead (Pb)	0.5 mg/l (for storage ware > 3l) 0.5 mg/l (for cooking ware)	ISO 6486-1 and ISO 8391-1 (ceramic cookware, test method; release of lead and cadmium)
Cadmium (Cd)	0.1 mg/l(for storage ware > 3l) 0.05 mg/l(for cooking ware)	
Cobalt (Co)	0.02 mg/l	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours, 3 successive migrations and take the 3 <sup>rd</sup> migration results.
Aluminium (Al)	1 mg/kg	
Arsenic (As)	0.002 mg/kg	
Drinking Rim		
Lead (Pb)	2 (mg/article) and 0.8 mg/dm <sup>2</sup>	SO 6486-1 , specify the articles lip and rim surface area to calculate mg/dm <sup>2</sup> (Danish Order on Food Contact Materials n. 681 of 25/05/2020) <sup>10</sup>
Cadmium (Cd)	0.2 (mg/article) and 0.07 mg/dm <sup>2</sup>	
Cobalt (Co)	0.05 mg/article	Directive 84/500/EEC (ICPMS), DIN EN 1388-1 and 2
Zinc (Zn)	3.0 mg/article	
Barium (Ba)	1.0 mg/article	
Antimony (Sb)	1.0 mg/article	

<sup>10</sup> Specify the articles lip and rim surface area in test report to calculate mg/dm2 (Danish Order on Food Contact Materials n. 681 of 25/05/2020) Fødevarekontaktmaterialebekendtgørelsen (retsinformation.dk)

<sup>10</sup> Specify the articles lip and rim surface area in test report to calculate mg/dm<sup>2</sup> (Danish Order on Food Contact Materials n. 681 of 25/05/2020) Fødevarekontaktmaterialebekendtgørelsen (retsinformation.dk)

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
ENAMEL		
Restricted substance	Limit/Requirement	Test method
Arsenic (As)	0.001 mg/kg	Regeling van de Minister van Volksgezondheid, Welzijn van 14 maart 2014, kenmerk 328583-117560- VGP, Warenwetregeling verpakkingen en gebruiksartikelen
Boron (B)	1 mg/kg	
Chromium (Cr)	0.1 mg/kg	
Cobalt (Co)	0.02 mg/kg	
Mercury (Hg)	0.005 mg/kg	
Rubidium (Rb)	1 mg/kg	
Selenium (Se)	0.01 mg/kg	ISO 4531
Strontium (Sr)	1 mg/kg	
Aluminium (Al)	1 mg/kg	
Antimony (Sb)	0.04 mg/kg	
Barium (Ba)	1.2 mg/kg	
Cadmium (Cd)	0.005 mg/kg	
Copper (Cu)	4 mg/kg	
Lithium (Li)	0.48 mg/kg	
Lead (Pb)	0.01 mg/kg	
Manganese (Mn)	1.8 mg/kg	
Molybdenum (Mo)	0.12 mg/kg	
Nickel (Ni)	0.14 mg/kg	
Silver (Ag)	0.08 mg/kg	
Vanadium (Vd)	0.01 mg/kg	
Zinc (Zn)	5 mg/kg	
CONCRETE, MARBLE & SOAPSTONE		
Restricted substance	Limit/Requirement	Test method
Cadmium (Cd)	0.07 mg/dm2	Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours, 3 successive migrations and take the 3rd migration results.
Lead (Pb)	0.8 mg/dm2	
Zinc (Zn)	3 mg/l	
Antimony (Sb)	1 mg/l	
Barium (Ba)	1 mg/l	
Aluminium (Al)	1 mg/kg	
Cobalt (Co)	0.02 mg/kg	
Arsenic (As)	0.002 mg/kg	

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
METALS AND ALLOYS		
Restricted substance	Limit/Requirement	Test method
Sensory properties	No change in sensory properties (smell and/or taste) of food. Shall be controlled with Sensory analysis. Not worse than Grade 2.5.	Sensory analysis DIN 10955/ ISO 13302
Specific release for metals and alloys components [mg/kg food]		
Aluminium (Al)	5	Chapter 3, Annex I and II in Council of Europe Guide on metals and alloys used in food contact materials and articles
Antimony (Sb)	0.04	
Chromium (Cr)	0.1	
Cobalt (Co)	0.02	
Copper (Cu)	4	
Iron (FE)	40	
Manganese (Mn)	0.6	
Molybdenum (Mo)	0.12	
Nickel (Ni)	0.14	
Silver (Ag)	0.08	
Tin (Sn)	0.05	
Vanadium (Vd)	0.01	
Zinc (Zn)	5	
Specific release for metals as contaminants and impurities [mg/kg food]		
Arsenic (As)	0.002	Chapter 3, Annex I and II in Council of Europe Guide on metals and alloys used in food contact materials and articles
Barium (Ba)	1.2	
Beryllium (Be)	0.01	
Cadmium (Cd)	0.005	
Lead (Pb)	0.010	
Lithium (Li)	0.048	
Mercury (Hg)	0.003	
Thallium (Tl)	0.0001	
Corrosion resistant	No visible evidence of blistering, peeling, cracking or red corrosion products	ASTM B117-11 or ISO 9227 Salt spray test

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
METALS AND ALLOYS CONTINUED		
Additional requirements for organic coatings or varnishes on metal substrate		
Restricted substance	Limit/Requirement	Test method
Overall migration limit	10 mg/dm <sup>2</sup> 60 mg/kg for infants and young children	EN 1186
Specific migration of primary aromatic amines (PAA)	Sum of PAA: Not detectable (a detection limit of 0.01 mg/kg) - Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII (detection limit of 0.002 mg/kg)	Migration with food simulant followed by LC-MS/MS EN13130-1
Specific migration of polycyclic aromatic hydrocarbons (PAH)	Not detectable (a detection limit of 0.01 mg/kg)	Migration with food simulant followed by GC-MS
Monomers and other starting substances, additives, polymer production aids etc.	Comply with composition and specific migration positive list in - Regulation (EU) No 10/2011 - Resolution ResAP (2004) 1	Migration with food simulant followed by instrumental analysis
Epoxy Coating		
Bisphenol A, Bisphenol F, Bisphenol S	Not allowed to be used (not detectable with detection limit of 0.1 mg/kg)	Extraction with organic solvent followed by LCMS/MS analysis
NOGE	Usage ban	EN 13130 or EN 15136
BFDGE	Usage ban	EN 13130 or EN 15136
BADGE and derivatives, total	≤9 mg/kg (sum)	EN 13130 or EN 15137
1,4-Butandiol	≤5 mg/kg	EN 13130
Phenol	≤3 mg/kg	EN 13130
Polyurethane (PU)		
Isocyanates*	Not detected	ISO 10283 (modified)
Peroxide	Not detected	Ph. Eur. Method 2.5.5
Dimethylformamide (DMF)	Usage ban	
Additional requirements for coloured organic coatings or varnishes on metal substrate		
Colorfastness to food simulants	No color transition	Resolution AP (89) 1

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
STAINLESS STEEL		
Specific migration for metals and alloys components (mg/kg food)		
Restricted substance	Limit/Requirement	Test method
Aluminium (Al)	5	Chapter 3, Annex I and II in Council of Europe Guide on metals and alloys used in food contact materials and articles.
Antimony (Sb)	0.04	
Chromium (Cr)	0.250 0.1 mg/kg (Italy)	
Cobalt (Co)	0.02	Department of Biological Standardisation, OMCL Network & HealthCare (DBO) Consumer Health Protection RZ/PH/2013-06790L SBA/mfs Strasbourg, 18/11/2013:
Copper (Cu)	4	
Iron (Fe)	40	
Manganese (Mn)	1.8 0.1 mg/kg (Italy)	Italy: Specific migration of nickel, chromium and manganese For general use: 3% acetic acid (w/v) aqueous solution, 100°C, 30 min. (3 successive migrations and take the 3rd migration results.)
Molybdenum (Mo)	0.12	
Nickel (Ni)	0.14 0.1 mg/kg (Italy)	
Silver (Ag)	0.08	For cooking, dining and cutting article: 3% acetic acid at 70°C for 30 mins on the 3rd contact (3 successive migrations and take the 3rd migration results.)  For article in contact with water only: Water at 100°C for 30 mins on the 3rd contact (3 successive migrations and take the 3rd migration results.)
Tin (Sn)	100	
Vanadium (Vd)	0.01	
Zinc (Zn)	5	
Specification migration for metals as contaminants and impurities (mg/kg food)		
Arsenic (As)	0.002	Chapter 3, Annex I and II in Council of Europe Guide on metals and alloys used in food contact materials and articles
Barium (Ba)	1.2	
Beryllium (Be)	0.01	
Cadmium (Cd)	0.005	
Lead (Pb)	0.010	
Lithium (Li)	0.048	
Mercury (Hg)	0.003	
Thallium (Tl)	0.0001	
Global migration	8 mg/dm <sup>2</sup> or, 50 mg/kg (Italy)	Italian decree of Ministry of health of 21/03/1973 and its amendment, Italian decree of Ministry 21/12/2010, No 258
Requirement	Limit/Requirement	
Stainless steel grade	Stainless steel shall be compliant and tested according to Italian decree of Ministry of health of 21/03/1973 and its amendments, Annex II, Section VI and Article 36	

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
PAPER, BOARD & PAPER NAPKINS		
Paper, Board & Paper Napkins		
Restricted substance	Limit	Test method
Recycled paper	Permitted only with approval from SISSY-BOY	
Coated paper and board	Must also comply with Plastic requirements	
Antimicrobial substances	The finished paper or paper board must not have any preserving effect on the foodstuffs with which they come into contact	EN 1104
Sensory properties	No change in the composition of the food or its organoleptic properties	EN 1230-1 and -2 in combination with EN 10955
Lead (Pb), specific migration	Not detected (< 0.01mg/kg)	EN 645 & EN 13130-1
Cadmium, specific migration	≤ 5 µg/L	
Aluminum, specific migration	≤ 1.0 mg/kg	
Lead (Pb)	≤ 3 mg/kg	FR: DGCCRF, EN 12498 Maximum permitted content in paper or board expressed as mg/kg
Cadmium (Cd)	≤ 0.5 mg/kg	
Chromium VI	≤ 0.25 mg/kg	
Mercury (Hg)	≤ 0.3 mg/kg	FR: DGCCRF, EN 12497 Maximum permitted content in paper or board expressed as mg/kg
Pentachlorophenol (PCP)	≤ 0.1 mg/kg	ISO 15320 Maximum permitted content in paper or board expressed as mg/kg
Dyes and colourants	No bleeding A value of 5 on the evaluation scale must be reached	Color fastness (determination of color fastness of dyed paper and board intended to come into contact with foodstuffs). DIN EN 646
4,4'-bis (dimethylamino)-benzophenone (Michler's ketone)	Not detected (< 0.01mg/kg)	EDQM Guideline for paper and board EN 15519
Bisphenol A	0.05 mg/kg	CEN/TS 13130-13
	Not detected (< 0.01mg/kg) (for infants and young children article)	
Bisphenol S (BPS)	0.05 mg/kg	
1,3-dichloro-2-propanol (1,3-DCP), extractable	N.D. (< 2.0 µg/L)	EN 645
3-chloro-1,2-propanediol (3-MCPD), extractable	< 12.0 µg/L	
Sum of benzo(a) pyrene, benzo(a) anthracene, benzo(b)fluoranthene and chrysene	Not detected (sum, detection limit = 0.001 mg/kg for food contact paper and board not yet in contact with food)	EN 16619 CEN/TS 16621
Sum of benzophenone, 2-methyl benzophenone, 3-methyl benzophenone and 4-methyl benzophenone	Sum: 0.6mg/kg Sum (2-methylbenzophenone+3-methyl benzophenone + 4-methyl benzophenone): 0.05mg/kg	EDQM Guideline for paper and board EN 15519

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
PAPER, BOARD & PAPER NAPKINS CONTINUED		
Paper, Board & Paper Napkins		
Restricted substance	Limit	Test method
Diethylhexylphthalate (DEHP)	1.5 mg/kg	EN 16453
Sum of dibutyl phthalate (DBP) and diisobutyl phthalate (DIBP)	0.3 mg/kg	EN 16453
CMR category 1A/1B primary aromatic amines (PAAs)	Not detected (0.002 mg/kg)	EN 17163
Sum of all PAAs	Not detected (0.01 mg/kg)	EN 17163
Fluorescent Whitening Agents (FWAs)	No bleeding. A value of 5 on the evaluation scale must be reached	EN 648
Additional NIAS (Non-Intentionally Added Substances) requirements for recycled paper and board		
Diisopropylnaphthalene (DIPN)	As low as technically achievable	CEPI Guideline EN 14719
Dibutylphthalate (DBP)	0.3 mg/kg	EN 16453, SML
Di-isobutyl Phthalate (DIBP)	0.3 mg/kg	
Polycyclic Aromatic Hydrocarbons (PAHs*)	0.01 mg/kg	CEPI Guideline EN 14719
Polychlorinated Biphenyls (PCB)	2 mg/kg	ISO 15318 Maximum permitted content in paper or board expressed as mg/kg
Bisphenol A, Bisphenol F, Bisphenol S	Not allowed to be used (not detectable with detection limit of 0.1 mg/kg)	Extraction with organic solvent followed by LCMS/MS analysis
WOOD AND NATURAL FIBER		
Wood uncoated (including cork)		
Restricted substance	Limit/Requirement	Test method
Wood preservatives	Not allowed to be used without approval by SISSY-BOY <sup>11</sup>	Self Declaration
Sensory analysis	No change in sensory properties (smell or taste) of food $\leq$ 2.5 (Scale 0-4) .	Sensory analysis: DIN 10955/ ISO 13302
Specific migration of formaldehyde	15 mg/kg	EN 13130
Pentachlorophenol (PCP)	0.1 mg/kg	64 LFGB B82.02-8
Trichlorophenol (TriCP)	Not detectable (with a reporting limit of 0.1 mg/kg)	
Tetrachlorophenol (TeCP)	Not detectable (with a reporting limit of 0.1 mg/kg)	
Mold	Mold 50 CFU/g	GB 4789.15
Additional requirements for natural fibre (uncoated) (e.g. straw, rattan, banana leaves)		
Antimicrobial requirement	No inhibition zone should be observed	EN 1104
Additional requirements for Jute		
Odor	No odor detected (sacks made of woven jute/polyolefin fabric)	EN 767
Specifications	Standard specification for jute bags used in the packaging of food	IJO Standard 98/01
Residual mineral oil	Not to exceed 0.15 percent by weight of finished fibers	21 CFR 177.2800
<sup>11</sup> Contact your SISSY-BOY buyer		

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
WOOD AND NATURAL FIBER CONTINUED		
Additional requirements for organic coating on wood and natural fiber		
Restricted substance	Limit/Requirement	Test method
Overall migration limit	10 mg/dm <sup>2</sup> 60 mg/kg for infants and young children	EN 1186
Specific migration of formaldehyde	15 mg/kg	Migration with food simulant followed EN 13130-23
Specific migration of primary aromatic amines (PAA)	Sum of PAA: Not detectable (adetection limit of 0.01 mg/kg) - Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII (detection limit of 0.002 mg/kg)	Migration with food simulant followed by LC-MS/MS EN13130-1
Bisphenol A, Bisphenol S and Bisphenol F	Not allowed to be used (detection limit 0.1 mg/kg)	Extraction with organic solvent followed by LCMS/MS analysis
Color fastness	No color transition	EN 646
Monomers or other starting substances, additives, polymer production aids etc.	Comply with composition and specific migration positive list in Annex I, Regulation (EU) No 10/2011	Migration with food simulant followed by instrumental analysis
Metals and lanthanides	Comply with composition and specific migration in Annex II Regulation (EU) No 10/2011	Migration with food simulant followed by ICP-MS
Aluminium (Al)	1 mg/kg	Migration with food simulant followed by ICP-MS EN 13130-1
Antimony (Sb)	0.04 mg/kg	
Arsenic (As)	Not detectable (a detection limit of 0.01 mg/kg)	
Barium (Ba)	1 mg/kg	
Cadmium (Cd)	Not detectable (Limit of detection 0.002 mg/kg)	
Chromium (Cr)	Not detectable (a detection limit of 0.01 mg/kg)	
Cobalt (Co)	0.05 mg/kg	
Copper (Cu)	5 mg/kg	
Iron (FE)	48 mg/kg	
Lithium (Li)	0.6 mg/kg	
Manganese (Mn)	0.6 mg/kg	
Mercury (Hg)	Not detectable (a detection limit of 0.01 mg/kg)	
Nickel (Ni)	0.02 mg/kg	
Lead (Pb)	Not detectable (a detection limit of 0.01 mg/kg)	
Zinc (Zn)	5 mg/kg	



# SISSY-BOY

## SISSY-BOY chemical restrictions food contact products version 1.0

### TEXTILE PRODUCTS (NATURAL AND SYNTHETIC FIBERS)

Food contact products in textile material must also follow the SISSY-BOY Restricted Substances List (RSL).

Restricted substance	Limit/Requirement	Test method
Azo Dyes & Pigments*	10 mg/kg per listed amine	EN ISO 14362-1
Formaldehyde	16 mg/kg	ISO 14184-1
Pentachlorophenol content	0.5 mg/kg	§ 64 LFGB B 82.02-8:2001 modified
Overall migration limit <sup>12</sup>	10 mg/dm <sup>2</sup> 60 mg/kg for infants and young children	EN 1186
Color fastness to foodstuff	No visible color migration to foodstuff. A value of 5 on the evaluation scale must be reached.	EN 646
Odour	Grade 2 – not unpleasant	Smell test according to SNV 195 651
Mold	Spores and mycelia of mold not detected.	1. Smell test SNV 195 651 2. Light microscope analysis for suspicious spots 3. Staining with lactophenol blue followed by microscope analysis

### POLYMER COATINGS AND VARNISHES

#### Polymer coatings and varnishes

Coated material	Restriction
Organic coatings or varnishes on metal substrate	Must comply with Additional requirements for organic coatings or varnishes on metal substrate in section Metals and Alloys.
Varnishes and polymer coatings on wood and natural fiber	Must comply with Additional requirements for organic coating on wood and natural fiber in section Wood and natural fiber.
Plastic coating on paper and board	Must comply with chemical restrictions for Plastic

### ALL PLASTIC

All Plastic (the final product must comply with Regulation (EU) No 10/2011 and amendments)

The final product must comply with Swiss Ordinance SR 817.023.21.

Restricted substance	Limit/Requirement	Test method
Sensory properties	No change in sensory properties (smell and/or taste) of food. Shall be controlled with Sensory analysis. Not worse than Grade 2.5.	Sensory analysis: DIN 10955/ ISO 13302
Overall migration limit	10 mg/dm <sup>2</sup> 60 mg/kg for infants and young children	EN 1186
Monomers or other starting substances, additives, polymer production aids etc.	Comply with composition and specific migration positive list in Annex I, Regulation (EU) No 10/2011	Migration with food simulant followed by instrumental analysis
Metals and lanthanides	Comply with composition and specific migration in Annex II Regulation (EU) No 10/2011	Migration with food simulant followed by ICP-MS
Aluminium (Al)	1 mg/kg	Migration with food simulant followed by ICP-MS EN 13130-1
Antimony (Sb)	0.04 mg/kg	
Arsenic (As)	Not detectable (a detection limit of 0.01 mg/kg)	
Barium (Ba)	1 mg/kg	

<sup>12</sup> For synthetic textile only

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
ALL PLASTIC CONTINUED		
All Plastic (the final product must comply with Regulation (EU) No 10/2011 and amendments)		
Restricted substance	Limit/Requirement	Test method
Cadmium (Cd)	Not detectable (Limit of detection 0.002 mg/kg)	Migration with food simulant followed by ICP-MS EN 13130-1
Chromium (Cr)	Not detectable (a detection limit of 0.01 mg/kg)	
Cobalt (Co)	0.05 mg/kg	
Copper (Cu)	5 mg/kg	
Iron (FE)	48 mg/kg	
Lithium (Li)	0.6 mg/kg	
Manganese (Mn)	0.6 mg/kg	
Mercury (Hg)	Not detectable (detection limit 0.01 mg/kg)	
Nickel (Ni)	0.02 mg/kg	
Lead (Pb)	Not detectable (detection limit 0.01 mg/kg)	
Zinc (Zn)	5 mg/kg	
Specific migration of primary aromatic amines (PAA)	Sum of PAA: Not detectable (a detection limit of 0.01 mg/kg) - Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII (detection limit of 0.002 mg/kg)	Migration with food simulant followed by LC-MS/MS EN13130-1
Additional requirement for colored plastics		
Colour fastness	No transfer of colorants to food simulants is permitted	Resolution AP (89)1 Appendix III
Acetal Resins/Polyoxymethylene (POM)		
Boron (B)	0.008%	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS
Zinc (Zn)	1%	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS
Formaldehyde, Specific Migration	3 mg/kg (Aqueous simulants only)	EN 13130-23
Acryl Resins		
Volatile Organic matter (VOM)	0.5%	Gravimetric Method (90°C, 24 hours)
Peroxide	Not detected	Ph. Eur. Method 2.5.5
Melamine resins		
Formaldehyde	15 mg/kg	EN 13130-23
Melamine	2.5 mg/kg	EN 13130-1
Apart from complying with EU Regulation 10/2011, including its amendments Melamine resins must also comply with EU Regulation 284/2011.		
Polyamide (PA) e.g. Nylon		
Caprolactam	15 mg/kg	EN 13130-1
PAA	< 0.01 mg/kg	EN 13130
Hexamethylenediamine (PA6,6)	≤2.4 mg/kg	EN 13130
Apart from complying with EU Regulation 10/2011, including its amendments Polyamide resins must also comply with EU Regulation 284/2011.		

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
ALL PLASTIC CONTINUED		
Polyethylene (PE)		
Restricted substance	Limit/Requirement	Test method
Chromium (Cr)	10 mg/kg	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS
Vanadium (Vd)	20 mg/kg	
Zirconium (Zr)	100 mg/kg	
Hafnium (HF)	100 mg/kg	
1-Octene	≤15 mg/kg	EN 13130
1-Hexene	≤3 mg/kg	EN 13130
Polyethylene Terephthalate (PET)		
Lead (Pb), total	40 mg/kg as PbO	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS
Zinc (Zn), total	80 mg/kg	
Antimony (Sb)	350 mg/kg	EN 13130
Ethylene glycol	≤30 mg/kg (expressed as ethylene glycol)	
Diethylene glycol		
Terephthalic acid	≤7.5 mg/kg (expressed as terephthalic acid)	
Isophthalic acid		
Acetaldehyde	≤6 mg/kg	
Formaldehyde	≤15 mg/kg	
Polypropylene (PP)		
Chromium (Cr)	10 mg/kg	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS
Vanadium (Vd)	20 mg/kg	
Zirconium (Zr)	100 mg/kg	
Hafnium (HF)	100 mg/kg	
1-Octene	≤15 mg/kg	EN 13130
1-Hexene	≤3 mg/kg	EN 13130
Polyurethane (PU)		
Isocyanates*	Not detected	ISO 10283 (modified)
Peroxide	Not detected	Ph. Eur. Method 2.5.5
Dimethylformamide (DMF)	Usage ban	
Thermoplastic Elastomer (TPE)		
Formaldehyde, Specific Migration	3 mg/kg (Aqueous simulants only)	EN 13130-23
Zinc (Zn)	1%	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS
Lead (Pb)	0.001%	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
ALL PLASTIC CONTINUED		
Tritan Copolyester TX1001		
Restricted substance	Limit/Requirement	Test method
Specific migration of 2,2,4,4- tetramethylcyclobutane-1,3-diol (TMCD, CAS no. 3010-96-6)	5 mg/kg *Only for repeated use articles for long term storage at room temperature or below and hotfill	Migration with food simulant followed by GC-MS
NATURAL RUBBER, SYNTHETIC RUBBER, SILICONE AND ELASTOMER		
Rubber		
Restricted substance/ Requirement	Limit	Test method
Antimicrobial effect substances	Usage ban	
Overall migration	a) Test conditions: 10 days at 40°C 50 mg/dm <sup>2</sup> – in distilled water and in 10% ethyl alcohol 150 mg/dm <sup>2</sup> (organic components < 50 mg/dm <sup>2</sup> ) – in 3% wt. acetic acid  b) Test conditions: 24 hours at 40°C 20 mg/dm <sup>2</sup> – in distilled water and in 10% ethyl alcohol 100 mg/dm <sup>2</sup> (organic components < 20 mg/dm <sup>2</sup> ) – in 3% wt. acetic acid	EN 1186, BfR recommendation XXI
a) Products in contact with food for more than 24 hours, e.g. storage containers		
b) Products in contact with food less than 24 hours, e.g. lid seals, stoppers and caps		
Overall migration limit	10 mg/dm <sup>2</sup> 60 mg/kg for infants and young children	EN1186
PAH*, Content	< 0.2 mg/kg, each 10 listed PAH < 1 mg/kg, naphthalene < 1 mg/kg sum of Anthracene, fluoranthene, phenanthrene, pyrene < 1 mg/kg, sum of 15 PAH	AfPS GS 2019:01 PAK
PAH*, Specific Migration	10 µg/kg	EN 13130+GC/MS
Lead (Pb), total	For rubber: 0.003% For rubber with mouth contact: 0.001%	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS
Zinc (Zn), total	1%	Total metal content by microwave digestion with HNO <sub>3</sub> /H <sub>2</sub> O <sub>2</sub> and determination with ICP/MS
Organotin Compounds*	0.05 mg/kg	DIN 38407-13
Formaldehyde, Specific Migration	3 mg/kg (aqueous solution only)	EN 13130-23
Hexamethylenetetramine, Specific Migration	SML(T) = 15 mg/kg as the sum of the migration of hexamethylenetetramine and formaldehyde	
N-nitrosamines, Specific Migration	0.01 mg/kg 1 µg/dm <sup>2</sup> , sum release in elastomers	EN 12868
N-nitrosable substances For rubber with mouth contact	0.1 mg/kg	

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
NATURAL RUBBER, SYNTHETIC RUBBER, SILICONE AND ELASTOMER CONTINUED		
Rubber		
Restricted substance/ Requirement	Limit	Test method
Lead (Pb), migration	N.D. (detection limit of 0.01 mg/kg)	BfR recommendation XXI
Primary Aromatic Amines, Specific Migration	- N.D. (a detection limit of 0.01 mg/kg) - N.D. PAAs listed in REACH entry 43 to Appendix 8 of Annex XVII : Not detected (detection limit of 0.002 mg/kg)	
Secondary aliphatic and cycloaliphatic amines, specific migration	5 mg/dm <sup>2</sup>	
Specific migration of metals	Barium: ≤ 1.2 mg/kg Copper: ≤ 4 mg/kg Aluminium: ≤ 1 mg/kg Zinc: ≤ 5 mg/kg	French Decree of 5 August 2020
Residual content of impurities (lead, cadmium, antimony, mercury and arsenic) in finished products	≤ 1 mg/kg	
Peroxide residues	Absence	DGCCRF - 2004-64, European Pharmacopoeia, 2005
Volatile Organic Matter (VOM)	< 0.5%	DGCCRF - 2004-64, French decree 25/11/92
Aromatic Amines	≤ 1 mg/kg	DGCCRF - 2004-64, EN 13130
Silicone		
Restricted substance	Requirement	
Monomers, additives and other starting substances	Must be listed in annex I in Spanish Royal Decree 847/2011 or in Annex I in EU Regulation (EU) No.10/2011 or EU Resolution AP (2004) 5.	
Polymerization aids	Must comply with article 5 in Spanish Royal Decree 847/2011 and not be present in final product	
Identity and purity of coloring matter	Must fulfill the criteria of identity and purity established in article 6 and Annex II of Royal Decree 847/2011 Article	
Specific migration limits (SML)	Final product must fulfill SML in Annex I in Royal Decree 847/2011, Annexes III and V in Regulation (EU) No.10/2011 or EU Resolution Resolution AP(2004) 5.	
Restricted substance/ Requirement	Limit	Test method
Overall migration limit	10 mg/dm <sup>2</sup> 60 mg/kg for infants and young children	EN 1186
Migration of colorants	> 95% transmission	DM 21/03/1973
SML of Organotin (as Tin)	0.1 mg/kg	Arrêté du 25 Novembre 1992
PAH*, Content	< 0.2 mg/kg, each 10 listed PAH < 1 mg/kg, naphthalene < 1 mg/kg sum of Anthracene, fluoranthene, phenanthrene, pyrene < 1 mg/kg, sum of 15 PAH	AfPS GS 2019:01 PAK

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
NATURAL RUBBER, SYNTHETIC RUBBER, SILICONE AND ELASTOMER CONTINUED		
Silicone		
Restricted substance/ Requirement	Limit	Test method
PAH*, Specification Migration	5 µg/kg	EN 13130+GC/MS
Extractable Matter	0.5%	§ 30 and 31 of Food and Feed Code (LFGB) / BfR recommendation XV
Peroxide	Not detected	Ph. Eur. Method 2.5.5
Volatile Organic Matter (VOM)	0.5%	French Decree 2007-766, French Arrete 25 Nov. 1992 , 4h/200°C
Formaldehyde specific migration	3 mg/kg (Aqueous simulants only)	EN 13130-23
REQUIREMENTS CHILD CARE ARTICLES		
Cutlery and Feeding Utensils		
Additional requirements for Metals / Stainless steel / Silicone		
Restricted substance	Limit	Test method
Antimony (Sb)	15 mg/kg	According to EN14372
Arsenic (As)	10 mg/kg	
Barium (Ba)	100 mg/kg	
Cadmium (Cd)	20 mg/kg	
Lead (Pb)	25 mg/kg	
Chromium (Cr)	10 mg/kg	
Mercury (Hg)	10 mg/kg	
Selenium (Se)	100 mg/kg	
Drinking Equipment		
General Requirements for Plastic & Thermoplastic Elastomer (TPE) / Rubber/ Silicone		
Restricted substance	Limit	Test method
Aluminium (Al)	6000 mg/kg	According to EN14350
Antimony (Sb)	120 mg/kg	
Arsenic (As)	10 mg/kg	
Barium (Ba)	4000 mg/kg	
Boron (B)	3200 mg/kg	
Cadmium (Cd)	3.6 mg/kg	
Chromium (Cr III)	100 mg/kg	
Chromium (Cr VI)	0.002 mg/kg	
	If the result is below the Limit of Quantification of EN 71-3, the sample is to be considered passed.	

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0		
REQUIREMENTS CHILD CARE ARTICLES CONTINUED		
Drinking Equipment Continued		
General Requirements for Plastic & Thermoplastic Elastomer (TPE) / Rubber/ Silicone		
Restricted substance	Limit	Test method
Cobalt (Co)	28 mg/kg	According to EN14350
Copper (Cu)	1660 mg/kg	
Lead (Pb)	5 mg/kg	
Manganese (Mn)	600 mg/kg	
Mercury (Hg)	20 mg/kg	
Nickel (Ni)	56 mg/kg	
Selenium (Se)	100 mg/kg	
Strontium (Sr)	12 000 mg/kg	
Tin (Sn)	40 000 mg/kg	
Organic Tin	2.5 mg/kg	
Zinc (Zn)	10 000 mg/kg	
N-Nitrosamines release	0.01 mg/kg	TPE, Rubber, Silicone, EN 12868
N-Nitrosatables release	0.1 mg/kg	
Additional requirements for Thermoplastic Elastomer (TPE)		
Restricted substance	Limit	Test method
Formaldehyde, specific migration	0.5 mg/l	EN 14350
Primary Aromatic Amines, Specific Migration	Sum of PAA: Not detected (a detection limit of 0.01 mg/kg) Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII : Not detected (detection limit of 0.002 mg/kg)	EN 14350 Simulant: 3% acetic acid. Test conditions: 40°C for 24 hours
Additional requirements for Rubber		
Restricted substance	Limit	Test method
2-mercaptobenzothiazole (MBT)	8 mg/kg	EN 14350
2,6-bis(1,1-dimethylethyl)-4-methylphenol (BHT)	0.42 mg/l	
2,2'-methylenebis(4-ethyl-6-tertbutylphenol) (Cyanox 425)	0.08 mg/l	
2,2'-methylenebis(6-(1,1- dimethylethyl)-4-methyl-phenol) (Antioxidant 2246)	This limit is the SML(t) for the sumof Cyanox 425 and Antioxidant 2246	
Butylated reaction product of p-cresol and dicyclopentadiene (Wingstay L)	0.34 mg/l	
2,4-bis(octylthiomethyl)-6- methylphenol (Irganox1520)	0.34 mg/l	
2,4-bis(dodecylthiomethyl)-6- methylphenol (Irganox 1726)	This limit is the SML(t) for the sum of Irganox 1520 and Irganox 1726	
Formaldehyde, specific migration	0.5 mg/l	
Primary Aromatic Amines, Specific Migration	Sum of PAA: Not detected (a detection limit of 0.01 mg/kg) Individual PAA listed in REACH entry 43 to Appendix 8 of Annex XVII : Not detected (detection limit of 0.002 mg/kg)	

# SISSY-BOY

SISSY-BOY chemical restrictions food contact products version 1.0

## REQUIREMENTS CHILD CARE ARTICLES CONTINUED

### Drinking Equipment Continued

#### Additional requirements for Silicone

Restricted substance	Limit	Test method
Volatile Compounds Content	< 0.5 %	EN 14350

#### Glass

Restricted substance	Limit	Test method
Lead (Pb)	10 µg/l of the simulant	EN ISO 17294-2 Simulant: 4% acetic acid. Test conditions: 22°C for 24 hours
Cadmium (Cd)	3 µg/l of the simulant	



# SISSY-BOY

**SISSY-BOY chemical restrictions food contact products appendix version 1.0 (Restricted substances with CAS no (Not Exhaustive list))**

SUBSTANCE	CAS NUMBER	SUBSTANCE	CAS NUMBER
Aluminium (Al)	7429-90-5	Glyoxal	107-22-2
4-aminobiphenyl	92-67-1	Hafnium (Hf)	7440-58-6
Aniline hydrochlorid	142-04-1	Hexamethylenediamine	124-09-4
Antimony (Sb)	7440-36-0	Hexamethylenetetramine	100-97-0
Arsenic (As)	7440-38-2	1-Hexene	592-41-6
Barium (Ba)	7440-39-3	Hydroquinone	123-31-9
Beryllium (Be)	7440-41-7	Imazalil	35554-44-0
Biphenyl	92-52-4	Iron (Fe)	7439-89-6
Benzidine	92-87-5	Isophthalic acid	121-91-5
Bisphenol A (BPA)	80-05-7	Lauro lactam	947-04-6
Bisphenol F (BPF)	620-92-8	Lead (Pb)	7439-92-1
Bisphenol S (BPS)	80-09-1	Lithium (Li)	7439-93-2
$\beta$ -naphthylamine	91-59-8	Manganese (Mn)	7439-96-5
Boron (B)	7440-42-8	4,4-methylenedianiline	101-77-9
1,3-Butadiene	106-99-0	Methyl methacrylate	80-62-6
Cadmium (Cd)	7440-43-9	Melamine	108-78-1
Caprolactam	105-60-2	Mercury (Hg)	7439-97-6
Cerium	7440-45-1	Molybdenum (Mo)	7439-98-7
3-Chloro-1,2-propanediol (3-MPCD)	96-24-2	N-ethylphenyl amine	103-69-5
Chromium (Cr)	7440-47-3	Nickel (Ni)	7440-02-0
Chromium III ( $\text{Cr}^{3+}$ )	16065-83-1	1-Octene	111-66-0
Chromium VI ( $\text{Cr}^{6+}$ )	18540-29-9	o-phenylphenol	90-43-7
Cobalt (Co)	7440-48-4	Pentachlorophenol (PCP)	87-86-5
Copper (Cu)	7440-50-8	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6
1,3-Dichloro-2-propanol (1,3- DCP)	96-23-1	7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8
Diisobutyl phthalate (DIBP)	84-69-5	2H,2H-perfluorodecane Acid (H2PFDA)	-
Diisopropylnaphthalene (DIPN)	38640-62-9	2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	34598-33-9
Dimethylformamide (DMF)	68-12-2	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6
Epichlorohydrin	106-89-8	1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9
Ethylenediamine	107-15-3	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5
Fluorine	7782-41-4	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2
Formaldehyde	50-00-0	1H,1H,2H,2H-Perfluoro-1-oktanol (6:2 FTOH)	647-42-7
Gallium	7440-55-3	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7
Germanium (Ge)	7440-56-4	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1

# SISSY-BOY

**SISSY-BOY chemical restrictions food contact products appendix version 1.0 (Restricted substances with CAS no (Not Exhaustive list))**

SUBSTANCE	CAS NUMBER	SUBSTANCE	CAS NUMBER
2-(N-methylperfluoro-FASE 1 octanesulfonamido)- ethanol (MeFOSE)	24448-09-7	Azo Dyes and Pigments Continued	CAS No
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	2,4-Diaminoanisole	615-05-4
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	4,4'-Diaminodiphenylmethane	101-77-9
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	3,3'-Dichlorobenzidine	91-94-1
1H,1H,2H,2H-Perfluorooctanesulphonic acid (H4PFOS 6-2)	27619-97-2	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4
All other Perfluorinated or Polyfluorinated compounds (fully or partially fluorinated compounds)	Various	3,3'-Dimethylbenzidine (o-Tolidine)	119-93-7
Peroxide	8007-30-5 / 7722-84-1	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0
Polychlorinated Biphenyls (PCB)	1336-36-3	p-Chloroaniline	106-47-8
Potassium permanganate	7722-64-7	p-Cresidine	120-71-8
Rubidium (Rb)	7440-17-7	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4
Selenium (Se)	7782-49-2	4,4'-Oxydianiline	101-80-4
Silver (Ag)	7440-22-4	4,4'-Thiodianiline	139-65-1
Strontium (Sr)	7440-24-6	2,4-Toluenediamine	95-80-7
Styrene	100-42-5	o-Toluidine	95-53-4
Sulfur dioxide	05-09-7446	2,4,5-Trimethylaniline	137-17-7
Terephthalic acid	100-21-0	o-Anisidine	90-04-0
Tin (Sn)	7440-31-5	p-Aminoazobenzene	60-09-3
Titanium (Ti)	7440-32-6	2,4-Xylidine	95-68-1
Thallium (Tl)	7440-28-0	2,6-Xylidine	87-62-7
Thiabendazole	148-79-8	Isocyanates	CAS No
Tris(2-hydroxyethylamine)	102-71-6	Diphenylmethane diisocyanate (MDI)	101-68-8
Vanadium (V)	7440-62-2	Hexamethylene diisocyanate (HMDI)	822-06-0
Zinc (Zn)	7440-66-6	Isophorone diisocyanate (IPDI)	4098-71-9
Zirconium (Zr)	7440-67-7	Tetramethylxylene diisocyanate (TMXDI)	2778-42-9
Azo Dyes and Pigments	CAS No	2,4-Toluene diisocyanate (2,4 TDI)	584-84-9
4-aminodiphenyl	92-67-1	2,6-Toluene diisocyanate (2,6 TDI)	91-08-7
Benzidine	92-87-5	N-Nitroamines	CAS No
4-Chloro-o-toluidine	95-69-2	N-Nitrosodimethylamine	62-75-9
2-Naphthylamine	91-59-8	N-Nitrosodiethylamine	55-18-5
o-Aminoazotoluene	97-56-3	N-Nitrosodipropylamine	621-64-7
2-Amino-4-nitrotoluene	99-55-8	N-Nitrosodibutylamine	924-16-3

# SISSY-BOY

## SISSY-BOY chemical restrictions food contact products appendix version 1.0 (Restricted substances with CAS no (Not Exhaustive list))

SUBSTANCE	CAS NUMBER	SUBSTANCE	CAS NUMBER
N-Nitroamines Continued	CAS No	PFCs/ PFAS Continued	CAS No
N-Nitrosopiperidine	100-75-4	Perfluorotetradecanoic Acid (PFTeA)	376-06-7
N-Nitrosopyrrolidine	930-55-2	Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6
N-Nitrosomorpholine	59-89-2	7H-Dodecanefluoroheptane Acid (HPFHpA)	1546-95-8
N-Nitroso-N-methylaniline	614-00-6	H,2H-perfluorodecane Acid (H2PFDA)	-
N-Nitroso-N-ethylaniline	612-64-6	2H,2H,3H,3H-Perfluoroundecanoic Acid (H4PFUnA)	34598-33-9
Organotin Compounds	CAS No	1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6
Dibutyltin (DBT)	1002-53-5	1H,1H,2H,2H-Perfluorodecylacrylate (8:2 FTA)	27905-45-9
Diocetyl tin (DOT)	-	1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5
Tributyltin (TBT)	56573-85-4	1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2
Tricyclohexyltin (TCyHT)	6056-50-4	1H,1H,2H,2H-Perfluoro-1-oktanol (6:2 FTOH)	647-42-7
Trioctyltin (TOT)	250252-89-2	1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH)	678-39-7
Triphenyltin (TPhT)	668-34-8	1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1
Tripropyltin (TPT)	-	2-(N-methylperfluoro-FASE 1 octanesulfonamido)-ethanol (MeFOSE)	24448-09-7
Other tri-substituted organotins	Various	2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2
Phenolic Substances	CAS No	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8
Phenolic Substances	Various	N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2
PFCs/ PFAS	CAS No	1H,1H,2H,2H-Perfluorooctanesulphonic acid (H4PFOS 6-2)	27619-97-2
Perfluorobutane Sulfonate (PFBS)	29420-49-3	All other Perfluorinated or Polyfluorinated compounds (fully or partially fluorinated compounds)	Various
Perfluorohexane Sulfonate (PFHxS)	3871-99-6	<b>Polyaromatic Hydrocarbons (PAHs)</b>	
Perfluoroheptane Sulfonate (PFHpS)	375-92-8	<b>CAS No</b>	
Perfluorooctane Sulfonate (PFOS)	56773-42-3	Acenaphthene	83-32-9
Perfluorodecane Sulfonate (PFDS)	126105-34-8	Acenaphthylene	208-96-8
Perfluorooctane Sulfonamide (PFOSA) 1H,1H,2H,2H H4PFOS 6:2	754-91-6	Anthracene	120-12-7
Perfluorobutane Acid (PFBA)	375-22-4	Benzo[a]anthracene	56-55-3
Perfluoropentane Acid (PFPA)	2706-90-3	Benzo[a]pyrene	50-32-8
Perfluorohexane Acid (PFHxA)	307-24-4	Benzo[b]fluoranthene	205-99-2
Perfluoroheptane Acid (PFHpA)	375-85-9	Benzo[e]pyrene	192-97-2
Perfluorooctanoic Acid (PFOA)	335-67-1	Benzo[g,h,i]perylene	191-24-2
Perfluorononane Acid (PFNA)	375-95-1	Benzo[j]fluoranthene	205-82-3
Perfluorodecane Acid (PFDA)	335-76-2	Benzo[k]fluoranthene	207-08-9
Perfluoroundecanoic Acid (PFUnA)	4234-23-5		
Perfluorododecanoic Acid (PFDoA)	307-55-1		
Perfluorotridecanoic Acid (PFTrA)	72629-94-8		

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SUBSTANCE	CAS NUMBER	SUBSTANCE	CAS NUMBER
Polyaromatic Hydrocarbons (PAHs) Continued	CAS No	Polyaromatic amines (PAA) Continued	CAS No
Chrysene	218-01-9	2-naphthylamine	91-59-8
Dibenz[a,h]anthracene	53-70-3	5-nitro-o-toluidine	99-55-8
Fluoranthene	206-44-0	4-chloroaniline	106-47-8
Fluorene	86-73-7	4-methoxy-m-phenylenediamine	615-05-4
Indeno(1,2,3-c,d)pyrene	193-39-5	4,4'-methylenedianiline	101-77-9
Naphthalene	91-20-3	4,4'-diaminodiphenylmethane	
Phenanthrene	85-01-8	3,3'-dichlorobenzidine	91-94-1
Pyrene	129-00-0	3,3'-dichlorobiphenyl-4,4'-ylenediamine	
<b>Phthalates</b>	<b>CAS No</b>	3,3'-dimethoxybenzidine	119-90-4
Di-iso-nonylphthalate (DINP)	28553-12-0	o-dianisidine	
Di-n-octylphthalate (DNOP)	117-84-0	3,3'-dimethylbenzidine	119-93-7
Di(2-ethylhexyl)-phthalate (DEHP)	117-81-7	4,4'-bi-o-toluidine	
Diisodecylphthalate (DIDP)	26761-40-0	4,4'-methylenedi-o-toluidine	838-88-0
Butylbenzylphthalate (BBP)	85-68-7	6-methoxy-m-toluidine p-cresidine	120-71-8
Dibutylphthalate (DBP)	84-74-2	4,4'-methylene-bis-(2-chloro-aniline)	101-14-4
Diisobutylphthalate (DIBP)	84-69-5	2,2'-dichloro-4,4'-methylene-dianiline	
Di-n-hexylphthalate (DnHP)	84-75-3	4,4'-oxydianiline	101-80-4
Diethylphthalate (DEP)	84-66-2	4,4'-thiodianiline	139-65-1
Dimethylphthalate (DMP)	131-11-3	o-toluidine	95-53-4
di-n-pentyl phthalate (DPENP)	131-18-0	2-aminotoluene	
dicyclohexyl phthalate (DCHP)	84-61-7	4-methyl-m-phenylenediamine	95-80-7
Bis(2-methoxyethyl)	117-82-8	2,4,5-trimethylaniline	137-17-7
Dinonyl phthalate (DNP)	84-76-4	o-anisidine	90-04-0
Di-n-propyl phthalate (DPRP)	131-16-8	2-methoxyaniline	
Di-cyclohexyl phthalate (DCHP)	84-61-7	4-amino azobenzene	60-09-3
Di-iso-octyl phthalate (DIOP)	27554-26-3	2,6-Dimethylaniline	87-62-7
<b>Polyaromatic amines (PAA)</b>	<b>CAS No</b>	Aniline	62-53-3
biphenyl-4-ylamine	92-67-1	2,4-Dimethylaniline	95-68-1
4-aminobiphenyl xenylamine		m-Phenylenediamine	108-45-2
benzidine	92-87-5	p-Phenylenediamine	106-50-3
4-chloro-o-toluidine	95-69-2	2,6-Toluenediamine	823-40-5
o-aminoazotoluene	97-56-3	1,5-Diaminenaphthalene	2243-62-1
4-amino-2',3-dimethylazobenzene			
4-o-tolylazo-o-toluidine			