



No. 058

Bureau Veritas Hong Kong Limited - Kowloon Bay Office
立德國際公証香港有限公司 - 九龍灣辦事處

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CLIENTELE : Public
服務對象 公眾

ACCREDITED TEST CATEGORIES : Chemical Testing 化學測試
認可測試類別 Chinese Medicine 中藥
Electrical and Electronic Products 電氣及電子產品
Environmental Testing 環境測試
Food 食品
Miscellaneous 雜類
Toys and Children's Products 玩具及兒童產品

SCOPE OF ACCREDITATION : As shown on the following pages 詳見後頁
認可範圍

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TEST CATEGORY 測試類別	ITEMS, MATERIALS OR PRODUCTS TESTED 測試項目、材料或產品	SPECIFIC TESTS OR PROPERTIES MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
CHEMICAL TESTING 化學測試	Products (intended to come into direct contact with skin)	Nickel release	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 27 as amended by Commission Regulation (EC) No. 552/2009 <i>Test method for compliance testing for Nickel content:-</i> EN 1811: 1998 BS EN 1811: 1998 EN 1811: 1998 + A1: 2008 BS EN 1811: 1998 + A1: 2008 EN 12472: 2005 BS EN 12472: 2005
	Surface coating, fabric, leather, metal, paint, paper, wood and coloured materials & plastic	Cadmium content	Netherlands Law Gazette 1999 No. 149 (Chemical Substances Act) Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No. 552/2009 United Kingdom Environmental Protection (Controls on Injurious Substances) (No.2) Regulations 1993 No. 1643 for cadmium content Swedish Ordinance SFS 1998: 944 German Chemicals Prohibition Ordinance paragraph 18: Cadmium Switzerland Ordinance relating to Environmentally Hazardous Substances (Ordinance on Substances) of 9 June 1986 (updated Jan 1996) with Amendment of 11 Nov 1998, Annex 4.11 & 4.12
	Surface coating, fabric, leather, metal, paint, paper, wood and coloured materials	Cadmium content	<i>Test method for compliance testing for Cadmium content in other materials except plastics:-</i> In House Method SOP#CH-355C
	Plastics	Cadmium content	<i>Test method for compliance testing for Cadmium content in plastics:-</i> BS EN 1122: 2001 method B (wet decomposition) EN 1122: 2001 method B (wet decomposition)

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CHEMICAL TESTING (cont'd) 化學測試 (續上)	Products made from leather or polyester, and textile products	Amine (Azo colourants) : 4-aminodiphenyl Benzidine 4-chloro-o-toluidine 2-naphthylamine o-aminoazotoluene 2-amino-4-nitrotoluene p-chloroaniline 2,4-diaminoanisole 4,4'-diaminodiphenylmethane 3,3'-dichlorobenzidine 3,3'-dimethoxybenzidine 3,3'-dimethylbenzidine 3,3'-dimethyl-4,4'-diaminodiphenylmethane p-cresidine 4,4'-methylene-bis-(2-chloroaniline) 4,4'-oxydianiline 4,4'-thiodianiline o-toluidine 2,4-diaminotoluene 2,4,5-trimethylaniline p-aminoazobenzene 2-methoxyaniline	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 German Commodities Goods Ordinance (Federal Law Gazette I) Annex I, No 7. <i>Test methods for compliance testing for leather products:</i> - CEN ISO/TS 17234:2003 - German Official Compendium for Examination Methods §35 LMBG B82.02-3 1997 - German Official Compendium for Examination Methods §35 LMBG B82.02-3 (V) 2004 (for determination of 20 amines listed on the left and excluding p-aminoazobenzene & 2- methoxyaniline) <i>Test method for compliance testing for textile products</i> - EN14362-1: 2003 - German Official Compendium for Examination Methods §35 LMBG B82.02-2 2004 (for determination of all 22 amines listed on the left) - German Official Compendium for Examination Methods §35 LMBG B82.02-2 1998 (for determination of 20 amines listed on the left and excluding p-aminoazobenzene & 2- methoxyaniline) <i>Test method for compliance testing for polyester products:</i> - EN14362-2: 2003 - German Official Compendium for Examination Methods §35 LMBG B82.02-04 2004 (for determination of all 22 amines listed on the left) - German Official Compendium for Examination Methods §35 LMBG 82.02-4 1998 (for determination of 20 amines listed on the left and excluding p-aminoazobenzene & 2- methoxyaniline) Techniques used are GC-MSD, HPLC-DAD, TLC for all test methods listed above.

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CHINESE MEDICINE 中藥	Proprietary Chinese Medicines	Microbiological examinations :- - Microbial Limit Test Aerobic bacteria count Mold and Yeast count E. coli Salmonella species Pseudomonas aeruginosa Staphylococcus aureus	Pharmacopoeia of the People's Republic of China, 2000, Volume I, Appendix XIII C

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ENVIRONMENTAL TESTING 環境測試	Water and Wastewater	Microbial indicator :- - Total coliform count - Fecal coliform count - E. coli count - Heterotrophic plate count	APHA 20e 9222B (Membrane Filtration Method) DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.3) APHA 20e 9222D (Membrane Filtration Method) APHA 20e 9222D&G (Membrane Filtration Method followed by E. coli Partition Method) DoE (1983) Bacteriological & Examination of Drinking Water Supplies 1982, Sections 7.8 & 7.9, (Membrane Filtration Procedure: Section 7.8, 7.9.4.1, and 7.9.4.2 Bacterial Confirmation: in-situ urease test: by Appl. Environ. Microbiol. 29: p826-833) APHA 20e 9215B (Pour Plate Method)

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FOOD 食品	<p>Food containers (ceramic ware)</p> <p>Food containers (Glazed ceramic and glassware)</p>	<p>Toxicology tests :-</p> <p>- Leachable Cadmium and Lead</p> <p>- Lead and cadmium</p>	<p>US FDA Compliance Policy Guides 7117.06 (2005)- 7117.07 (2005) <i>Test procedures for compliance:-</i> AOAC Official Method 973.32 (2005) AOAC Official Method 973.82 (2005) ASTM C738-94 (Reapproved 1999)</p> <p>Canada Hazardous Products Act (R.S., 1985, c. H-3) Schedule 1, Part I, item 20.1 Canada Galazed Ceramics and Glassware Regulations SOR/98-176 (amended to SOR/2007-30) <i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-10: Determination of Leachable Lead and Cadmium from Glazed Ceramics and Glasswares (Jan 2, 2008)</p>

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FOOD 食品	Water	Microbiological tests :- - Total coliform count - Fecal coliform count - E. coli count	APHA 20e 9222B (Membrane Filtration Method) APHA 20e 9222D (Membrane Filtration Method) APHA 20e 9222D&G (Membrane Filtration Method followed by E. coli Partition Method) DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.4)
	General foodstuff	Microbiological tests :- - Molds and yeasts (total) count (dilution plating technique) - Aerobic plate count - Coliform count - Faecal coliform count - E. coli count	US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 18, January 2001 (Pour Plate Method) or (Spread Plate Method) US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 3, January 2001 (Conventional Plate Count Method) US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (Solid Medium Method) or (MPN Method) US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (MPN Method) US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (MPN Method followed by completed test for E. coli)

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MISCELLANEOUS 雜類	<p>Cosmetics, Liquids, Pastes, Putties, Gels and Powders</p> <p>Pharmaceutical articles</p> <p>Water</p>	<p>Microbiological tests :-</p> <ul style="list-style-type: none"> - Antimicrobial Effectiveness Testing - Microbial Limit Test - Aerobic plate count - Molds and yeasts (total) count - Staphylococcus aureus count - Microbial Limit Test - Total coliform count 	<p>USP < 51 > 31st edition</p> <p>USP < 61 > 31st edition</p> <p>US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 23, August 2001 (Spread Plate Method)</p> <p>US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 23, August 2001 (Spread Plate Method)</p> <p>US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 23, August 2001 (Spread Plate Method)</p> <p>USP < 61 > 31st edition</p> <p>DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.3)</p>

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TOYS and CHILDREN'S PRODUCTS 玩具及兒童產品	Ceramicware (ceramic toy components intended or likely to hold food)	Chemical tests :- - Lead and cadmium Contamination	ASTM F963-08, clause 4.3.3.2 ASTM F963-07(e1), clause 4.3.3.2 FDCA Section 402 (a) (2) (c) & applicable US FDA Compliance Policy Guides <i>Test procedures for compliance testing of lead and cadmium contents:-</i> ASTM C738-94 (Reapproved 1999)
	All toys	- DEHP	ASTM F963-08, clause 4.3.8 ASTM F963-07(e1), clause 4.3.8 ASTM D3421-75 (with modification)
	Child use and care articles – cutlery and feeding utensils	- phthalates	EN14372 clauses 5.4.2.3 and 6.3.2 EN14372: 2004 clauses 5.4.2.3 and 6.3.2 <i><excluding the following></i> Gravimetric method
	Toys – paint and similar surface-coating materials	- Total lead content	ASTM F963-08 clause 4.3.5 ASTM F963-07(e1) clause 4.3.5 Clause 4.3.5.1 <i>Test procedures for compliance testing:-</i> CPSC Test Method: CPSC-CH-E1003-09 Standard Operating Procedure for Determining Lead (Pb) in Paint & other similar Surface Coatings, April 26, 2009
		- Migration of the elements Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium	Clause 4.3.5.2
	Toys and other articles intended for use by children – paint and other similar surface-coating materials	-Total lead content	US Public Law 110 -314 (HR4040) Consumer Product Safety Improvement Act 2008 US 16 CFR Part 1303 <i>Test procedures for compliance testing:-</i> CPSC Test Method: CPSC-CH-E1003-09 Standard Operating Procedure for Determining Lead (Pb) in Paint & other similar Surface Coatings, April 26, 2009

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TOYS and CHILDREN'S PRODUCTS 玩具及兒童產品	Children's metal products	Chemical tests (cont'd):- -Total lead content	US Public Law 110 -314 (HR4040) Consumer Product Safety Improvement Act 2008 <i>Test Procedures for Compliance testing:</i> CPSC Test Method: CPSC-CH-E1001-08 Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry), December 4, 2008
	Children's non-metal products	-Total lead content	<i>Test Procedures for Compliance testing:</i> CPSC Test Method: CPSC-CH-E1002-08 Standard Operating Procedure for Determining Total Lead (Pb) in Non-Metal Children's Products , February 1, 2009
	Toys and childcare articles	- Dibutyl Phthalate (DBP) - Di-(2ethylhexyl) phthalate (DEHP) - Benzyl Butyl Phthalate (BBP) - Di-n-octyl phthalate (DnOP) - Diisononyl phthalate (DINP) - Diisodecyl phthalate (DIDP)	<i>Test Procedures for Compliance testing:</i> CPSC Test Method: CPSC-CH-C1001-09.2 Standard Operating Procedure for Determination of Phthalates, July 27, 2009 (Extraction and analysis method: EN14372 clause 6.3.2 (excluding gravimetric method) and CPSC-CH-C1001-09.1)
	All toys	- Migration of the elements antimony, chromium, selenium, arsenic, cadmium, mercury, barium, lead	AS/NZS ISO 8124-3: 2003 ISO 8124-3: 1997 BS 5665: Part 3: 1995 EN 71-3: 1994 + A1:2000/ AC:2002 BS EN 71-3: 1995 + A1:2001
	Fillings and stuffings	- Cleanliness tests and extractable materials	ASTM F963-07 (e1), cl. 4.3.7 ASTM F963-03, cl. 4.3.7 In House Method CH 415A Stuffed Toy Regulations of The Commonwealth of Pennsylvania, Clause 47.317 In House Method CH 117A <Excluding the following> Marking and Bioburden Surface burns of filling materials

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TOYS and CHILDREN'S PRODUCTS 玩具及兒童產品	All toys and children's products – surface coating materials	Chemical tests (cont'd):- - Total lead content - Total mercury content - Leachable arsenic, selenium, cadmium, antimony and barium	Canada Hazardous Products Act (R.S. 1985, c H-3) Schedule 1, Part I, Item 2, 9 and 18 <i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.2: Determination of Total Lead in Surface Coating Materials in Consumer Products (2008-11-13) <i>Test procedures for compliance testing:</i> In-house method: SOP#CH-543C <i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, <i>Method C-03:</i> Determination of Leachable Arsenic (As), Selenium (Se), Cadmium (Cd), Antimony (Sb) and Barium (Ba) in Applied Coatings (2009-06-15)
	All toys and children's products – polyvinyl chloride materials	- Total lead content	Canada Hazardous Products Act (R.S. 1985, c-H-3) Schedule I, Part II, Item 13(r) Hazardous Products (Toys) Regulations, C.R.C., c. 931, Section 12 Health Canada Notice issued on Dec 20, 2007 <i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.3: Determination of total Lead in Polyvinyl Chloride Products by Closed Vessel Microwave Digestion (2008-01-02)

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TOYS and CHILDREN'S PRODUCTS 玩具及兒童產品	Children's jewellery	Chemical tests (cont'd):-	<p>Canada Hazardous Products Act (R.S., 1985, c.H-3) Schedule I, Part I, Item 42</p> <p><i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.2: Determination of Total Lead in Surface Coating Materials in Consumer Products (2008-11-13)</p> <p><i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-02.3: Determination of total Lead in Polyvinyl Chloride Products by Closed Vessel Microwave Digestion (2008-01-02)</p> <p><i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section Method C-02.4 Determination of Total Lead in Metallic Consumer Products (2008-10-13)</p> <p><i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-08: Determination of Migratable Lead in Consumer Products (2008-08-19)</p> <p>Canada Hazardous Products Act (R.S., 1985, c.H-3) Schedule I, Part I, Items 6 and 7</p> <p><i>Test procedures for compliance testing:</i> Health Canada Product Safety Reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section, Method C-17: Detection of cellulose nitrate in children's optical frame, toys and other consumer products (2003-01-20)</p>
	Children's jewellery - surface coating	- Total lead content	
	Children's jewellery - polyvinyl chloride materials	- Total lead content	
	Children's jewellery - metallic materials	- Total lead content	
	Children's jewellery	- Migrable lead content	
All toys	- Cellulose nitrate		

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	All toys' materials	Chemical tests :- (cont'd)	Japan Toy Safety Standard ST2002, Ninth Edition, Part 3 (2009.9.1) (Based on the English translation published by Japan Toy Association)
	Toys that are made of materials which are mainly composed of polyethylene, polyvinyl chloride or acetyl cellulose (excluding parts on which paint coating is applied)	- Colouring matters - Consumption of potassium permanganate and residue on evaporation - Heavy metals - Arsenic - Cadmium (excluding materials mainly composed of polyethylene)	Clause 1.1 Clause 1.2
	Decalcomania, folded paper and rubber-made toys (excluding rubber pacifiers)	- Heavy metals - Arsenic	Clause 1.3
	Vinyl chloride resin coating	- Consumption of potassium permanganate - Residue after evaporation - Lead - Arsenic - Cadmium	Clause 1.4
	The Paint coating applied to the body or the components of the toys (excluding the printing ink used for paper containers)	- Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Clause 1.5
	Textile products used for toys	- Free formaldehyde	Clause 1.6
	Soap bubbles	- Surface active agent equivalent content - Fluorescent brightener - Heavy metals - Volume of soap bubble solution	Clause 1.7
	Ink and the like used for the graphic instruments that are provided with the toys such as pencils, ball-point pens, markers, crayons, pastels, water colours, chalks, etc.	- Colouring matters - Heavy metals: 8 elements (antimony, arsenic, barium, cadmium, chromium, lead, mercury and selenium)	Clause 1.8

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)		Chemical tests :- (cont'd)	Japan Toy Safety Standard ST2002, Ninth Edition, Part 3 (2009.9.1) (Based on the English translation published by Japan Toy Association) (cont'd)
	Synthetic resin mainly composed of polyvinyl chloride, for which phthalate compound for which Phthalate compounds is used as raw material (including those used for paint coating)	- Bis (2-ethylhexyl) phthalate, - Di-isononyl phthalate - Di-n-octyl phthalate - Di-iso-decyl phthalate - Butyl benzyl phthalate - Dibutyl phthalate	Clause 1.9 <Excluding the following> Clause 1.9.3
	Metals used for toy (neither painted nor covered)	- Lead	Clause 1.11
			Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2008, JETRO January 2009, Part V "TOYS" <i>Test procedure for compliance testing:-</i> Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (Based on the tentative English translation published by JETRO)
	Decals	- Heavy metals - Arsenic	Part III Section A Paragraph 1
	Origami paper	- Heavy metals - Arsenic	Part III Section A Paragraph 2
	Rubber pacifiers	- Materials testing: - Cadmium and lead - Eluting testing: - Phenol, Formaldehyde, Zinc, Heavy metals and Evaporation of residue	Part III Section A Paragraph 3 Part II Section D Paragraph 3, Sub-paragraph 2
Coating film of toys	- Cadmium, lead and arsenic	Part III Section A Paragraph 4	
Coating film coated by using Polyvinyl chloride	- Potassium permanganate consumption - Evaporation of residue	Part III Section A Paragraph 5	

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TEST CATEGORY 測試類別	ITEMS, MATERIALS OR PRODUCTS TESTED 測試項目、材料或產品	SPECIFIC TESTS OR PROPERTIES MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)		Chemical tests :- (cont'd)	Specifications and Standards for Foods, Food Additives, etc. under the Food Sanitation Act (ABSTRACTS) 2008, JETRO January 2009, Part V "TOYS" <i>Test procedure for compliance testing:-</i> Specifications, Standards and Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO January 2009 (Based on the tentative English translation published by JETRO) (cont'd)
	Parts (excluding coating film) manufactured using materials mainly composed of polyvinyl chloride	- Potassium permanganate consumption - Heavy metals - Cadmium - Evaporation of residue - Arsenic	Part III Section A Paragraph 6
	Parts (excluding coating film) manufactured using materials mainly composed of polyethylene	- Potassium permanganate consumption - Heavy metals - Evaporation of residue - Arsenic	Part III Section A Paragraph 9
	Metallic accessories and toys that might be swallowed by infants and small children	- Lead	Part III Section A Paragraph 10
	Synthetic resin-based colouring agents used in the manufacture of toys	- Colouring agent	Part III Section B Clause 1

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Surface coating, fabric, leather, metal, paint, paper, wood and coloured materials & plastic	Chemical tests :- (cont'd) - Cadmium content	Netherlands Law Gazette 1999 No. 149 (Chemical Substances Act) Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 23 as amended by Commission Regulation (EC) No. 552/2009 United Kingdom Environmental Protection (Controls on Injurious Substances) (No.2) Regulations 1993 No. 1643 Swedish Ordinance SFS 1998: 944 for cadmium German Chemicals Prohibition Ordinance paragraph 18: Cadmium Switzerland Ordinance relating to Environmentally Hazardous Substances (Ordinance on Substances) of 9 June 1986 (updated Jan 1996) with Amendment of 11 Nov 1998, Annex 4.11 & 4.12
	Surface coating, fabric, leather, metal, paint, paper, wood and coloured materials	- Cadmium content	Specifications and Standards for Foods, their Containers, and Packages, etc., 1992 [based on the Food Sanitation Law] Japan Food Hygiene Association (with amendment, 1995) <i>Test method for compliance testing for Cadmium content in other materials except plastics:-</i> In House Method SOP#CH-355C
	Plastics	- Cadmium content	<i>Test method for compliance testing for Cadmium content in plastics:-</i> BS EN 1122: 2001 method B (wet decomposition) EN 1122: 2001 method B (wet decomposition)

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Products made from leather or polyester, and textile products	Chemical tests :- (cont'd) - Amine (Azo colourants) : 4-aminodiphenyl Benzidine 4-chloro-o-toluidine 2-naphthylamine o-aminoazotoluene 2-amino-4-nitrotoluene p-chloroaniline 2,4-diaminoanisole 4,4'-diaminodiphenylmethane 3,3'-dichlorobenzidine 3,3'-dimethoxybenzidine 3,3'-dimethylbenzidine 3,3'-dimethyl-4,4'-diaminodiphenylmethane p-cresidine 4,4'-methylene-bis-(2-chloroaniline) 4,4'-oxydianiline 4,4'-thiodianiline o-toluidine 2,4-diaminotoluene 2,4,5-trimethylaniline p-aminoazobenzene 2-methoxyaniline	Regulation (EC) No. 1907/2006 on REACH Annex XVII Item No 43 as amended by Commission Regulation (EC) No. 552/2009 German Commodities Goods Ordinance (Federal Law Gazette I) Annex I, No 7 <i>Test methods for compliance testing for leather products:</i> - CEN ISO/TS 17234:2003 - German Official Compendium for Examination Methods §35 LMBG B82.02-3 1997 - German Official Compendium for Examination Methods §35 LMBG B82.02-3 (V) 2004 (for determination of 20 amines listed on the left and excluding p-aminoazobenzene & 2- methoxyaniline) <i>Test method for compliance testing for textile products</i> - EN14362-1: 2003 - German Official Compendium for Examination Methods §35 LMBG B82.02-2 2004 (for determination of all 22 amines listed on the left) - German Official Compendium for Examination Methods §35 LMBG B82.02-2 1998 (for determination of 20 amines listed on the left and excluding p-aminoazobenzene & 2- methoxyaniline)

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	<p>Battery operated toys <Excluding the following> - Battery operated ride on toys</p> <p>Electrically operated toys or other electrically operated articles intended for use by children <Excluding the following> - Toys having pressure relief valves and/or steam engines</p> <p>Electric toys supplied at extra-low voltage</p>	<p>Electrical tests :-</p> <p>- Battery operated toys safety tests</p> <p>- Requirements for electrically operated toys or other electrically operated articles</p> <p>- Compliance inspection and safety tests</p>	<p>AS/NZS ISO 8124.1: 2002 + Amdt. 1 Annex A ASTM F963-07(e1) Clauses 4.25 and 8.18 ASTM F963-08 Clauses 4.25 and 8.18</p> <p>16 CFR 1505</p> <p>BS EN 50088: 1996 with Amendment Nos. 1, 2 and 3 EN 50088: 1996 + A1 + A2 + A3 < Excluding the following > for the above two standards Clauses 9.8 (burning tests to other standards), 11.1 (IP tests to EN 60529), 16, 19.2.1 (burning tests to other standards) and 20 (radiation tests for laser; radiation tests for LED with wavelength $\lambda < 400$ nm or $\lambda > 1000$ nm); Annexes C and E BS EN 62115: 2005 EN 62115: 2005 IEC 62115: 2003 + A1 < Excluding the following > for the above three standards 11.1 (IP tests to EN 60529), 16, 19.2.1 (burning tests to other standards) and 20 (radiation tests for laser; radiation tests for LED with wavelength $\lambda < 400$ nm or $\lambda > 1000$ nm); Annex C</p>

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys	Flammability tests	16 CFR Parts 1500.44 & 1610 ASTM F963-07(e1) Clause 4.2 ASTM F963-08 Clause 4.2 AS/NZS ISO 8124.2: 2009 <i><Excluding the following></i> tests for flammable gases, extremely flammable liquids Japan Toy Safety Standard ST 2002 First Edition Part 2 <i>< Excluding the following ></i> viscosity tests, tests for flammable gases and extremely flammable liquids BS EN 71-2: 2006 + A1 EN 71-2: 2006 + A1 ISO 8124-2: 2007 <i>< Excluding the following ></i> for the above three standards viscosity tests, tests for flammable gases, flammable gels and highly flammable solids Canada Hazardous Products (Toys) Regulations C.R.C., c.931, Sections 16-18

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Aqueous liquid	Microbiological tests :- - Aerobic plate count (or Standard plate count) - Coliform count - Faecal coliform count - E. coli count	ASTM F963-07 (e1) 4.3.6.1 ASTM F963-08 4.3.6.1 (<i>Test procedures for compliance testing for the above two standards in respect to aerobic plate count, coliform count, faecal coliform count and E coli count:</i>) - US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 3, January 2001 (Conventional Plate Count Method) - US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (Solid Medium Method) or (MPN Method) - APHA 20e 9222B (Membrane Filtration Method) - US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (MPN Method) - US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (MPN Method followed by completed test for E. coli)
	Aqueous liquid	- Coliform count / E. coli count	UK Toy Water Snakes (Safety) Order 1983 - US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (10 tubes MPN Method followed by completed test for E. coli) - DoE(1983) The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Procedure: Sections 7.8, 7.9.4.1 and 7.9.4.2; Bacterial Confirmation: Section 7.9.4.3 and 7.9.4.4)
	Aqueous liquid	- Non-fecal coliform/Fecal coliform	Australian N.S.W. Product Safety Order (Gazette No. 12, 29/1/99 pursuant to the Fair Trading Act 1987 Section 31) on liquid filled products - US FDA Bacteriological Analytical Manual Online (BAM online), Chapter 4, September 2002 (10 tubes MPN Method) - APHA 20e 9222B (Membrane Filtration Method followed by coliform verification)

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toy cosmetics, liquids, pastes, putties, gels and powders	Microbiological tests (cont'd) :- - Antimicrobial Effectiveness Testing - Test for cleanliness and preservative effectiveness - Microbial Limit Test - Antimicrobial Effectiveness Testing	ASTM F963-07 (e1) 4.3.6.2 to 4.3.6.4 ASTM F963-08 4.3.6.2 to 4.3.6.4 <i>Test procedures for compliance testing:-</i> - USP < 51 > 31st edition ASTM F963-07(e1) 4.3.6.3 ASTM F963-08 4.3.6.3 <i>Test procedures for compliance testing:-</i> - USP < 61 > 31st edition - USP < 51 > 31st edition

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys	Physical and mechanical tests :- (cont'd) Requirements: - Normal use - Reasonably foreseeable abuse - Material - Small parts - Shape, size and strength of certain toys - Edges - Points - Projections - Metal wires and rods - Plastic film or plastic bags in packaging and in toys - Cords and elastics - Folding mechanisms - Holes, clearances and accessibility of mechanisms - Springs - Stability and overload requirements - Enclosures - Simulated protective equipment - Projectile toys - Aquatic toys - Braking - Toy bicycles - Speed limitation of electrically driven ride-on toys - Toys containing a heat source - Liquid-filled toys - Mouth-actuated toys - Toy roller skates and toy skateboards - Percussion caps - Magnets Test methods - Acoustics	AS/NZS ISO 8124.1: 2002 + Amdt. 1 + Amdt. 2 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 4.14 4.15 4.16 4.17 4.18 4.19 4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28 5 Annex F (for information only)

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys (cont'd)	Physical and mechanical tests :- (cont'd) Requirements: - Normal use - Reasonably foreseeable abuse - Material - Small parts - Shape, size and strength of certain toys - Edges - Points - Protruding parts - Metal wires and rods - Plastic film or plastic bags in packaging and in toys - Cords and elastics - Folding mechanisms - Holes, clearances and accessibility of mechanisms - Springs - Stability and overload requirements - Enclosures - Simulated protective equipment - Projectile toys - Aquatic toys - Braking - Toy bicycles - Speed limitation of electrically driven ride-on toys - Toys containing a heat source - Liquid-filled toys - Mouth-actuated toys - Toy roller skates and toy skateboards - Percussion caps - Acoustic requirements Test methods	ISO 8124-1: 2009 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 4.14 4.15 4.16 4.17 4.18 4.19 4.20 4.21 4.22 4.23 4.24 4.25 4.26 4.27 4.28 (with modification by using sound level meter complying with the specifications of IEC 60651 and IEC 60804) 5

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys <Excluding the following> - Pacifier with rubber nipples	Physical and mechanical tests :- Safety requirements : - Material quality - Labeling for components used in contact with food - Sound producing toys - Small objects - Accessible edges - Projections - Accessible points - Wires or rods - Nails and fasteners - Packaging film - Folding mechanisms & hinges - Cords, straps & elastics in toys - Stability and over-load requirements - Confined spaces - Wheels, tires & axles - Holes, clearance and accessibility of Mechanisms - Simulated protective devices - Pacifier - Projectile toys - Teethers and teething toys - Rattles - Squeeze toys - Toys intended to be attached to a crib or playpen - Toy chests - Stuffed and beanbag-type toys - Stroller and carriage toys - Toy gun marking - Balloons - Certain toys with spherical ends - Marbles - Balls - Pompoms - Hemispheric-shaped objects - Yo Yo elastic tether toys - Magnets	ASTM F963-07 (e1) 4.1 <Excluding the following> toxicology test of reprocessed material to 4.3.1 4.3.3.1 4.5 (with modification by using sound level meter complying with the specifications of IEC 60651 and IEC 60804) 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 4.14 4.15 4.16 4.17 4.18 4.19 4.20 4.21 4.22 4.23 4.24 4.26 4.27 4.28 4.29 4.31 4.32 4.33 4.34 4.35 4.36 4.37 4.38 4.39

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys (cont'd) <Excluding the following> - Pacifier with rubber nipples	Physical and mechanical tests :- (cont'd) Labeling requirements Instructional literature Producer's markings Test methods Safety requirements : - Material quality - Labeling for components used in contact with food - Sound producing toys - Small objects - Accessible edges - Projections - Accessible points - Wires or rods - Nails and fasteners - Packaging film - Folding mechanisms & hinges - Cords, straps & elastics in toys - Stability and over-load requirements - Confined spaces - Wheels, tires & axles - Holes, clearance and accessibility of mechanisms - Simulated protective devices - Pacifier - Projectile toys - Teethers and teething toys - Rattles - Squeeze toys - Toys intended to be attached to a crib or playpen - Stuffed and beanbag-type toys - Stroller and carriage toys - Toy gun marking - Balloons - Certain toys with spherical ends	ASTM F963-07 (e1) 5 6 7 8 ASTM F963-08 4.1 <Excluding the following> toxicology test of reprocessed material to 4.3.1 4.3.3.1 4.5 (with modification by using sound level meter complying with the specifications of IEC 60651 and IEC 60804) 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 4.14 4.15 4.16 4.17 4.18 4.19 4.20 4.21 4.22 4.23 4.24 4.26 4.27 4.28 4.30 4.31 4.32

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys (cont'd) <Excluding the following> - Pacifier with rubber nipples	Physical and mechanical tests :- (cont'd)	
		- Marbles	4.33
		- Balls	4.34
		- Pompoms	4.35
		- Hemispheric-shaped objects	4.36
		- Yo Yo elastic tether toys	4.37
		- Magnets	4.38
		- Jaw entrapment in handles and steering wheels	4.39
		Labeling requirements	5
		Instructional literature	6
Producer's markings	7		
Test methods	8		
	Balls intended for use by children under 3 years of age	- Method for identifying mechanical hazards because of small balls	16 CFR 1500.18(a)(17)
	Dive Sticks	- Method for determining the angle of a dive stick from vertical when it comes to rest underwater	16 CFR 1500.86(a)(7)
		- Method for determining the maximum vertical compressive force of a dive stick	16 CFR 1500.86(a)(8)
	Marbles, small balls, balloons and other small parts intended for use by children above 3 years of age	- Labeling requirements	16 CFR 1500.19
	Toys	- Technical requirements for determining a sharp point in toys intended for use by children under 8 years of age	16 CFR 1500.48
		- Technical requirements for determining a sharp metal or glass edge in toys intended for use by children under 8 years of age	16 CFR 1500.49

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys	Physical and mechanical tests :- (cont'd) - Test methods for simulating use and abuse of toys intended for use by children - Impact test - Bite test - Flexure test - Torque test - Tension test - Compression test	16 CFR 1500.50, 1500.51, 1500.52 and 1500.53
	Toys and other articles intended for use by children under 3 years of age	- Method for identifying choking, aspiration, or ingestion hazards because of small parts	16 CFR 1501 in conjunction with test methods specified in 16 CFR 1500.51 or 16 CFR 1500.52 [excluding bite test to 1500.51(c) or 1500.52 (c)]
	Infant rattles	- Method for identifying choking and/or suffocation hazards	16 CFR 1510 in conjunction with test methods specified in 16 CFR 1500.51 [excluding bite test to 1500.51(c) and flexure test to 1500.51 (d)]
	Pacifiers	- Requirement for pacifiers	16 CFR 1511

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys	Physical and mechanical tests :- (cont'd) General requirements: - Material - Assembly - Flexible plastic sheeting - Toy bags - Glass - Expanding materials - Edges - Points and wires - Protruding parts - Parts moving against each other - Mouth-actuated toys - Balloons - Cords of toy kites and other flying toys - Enclosures - Toys intended to bear the mass of a child - Heavy immobile toys - Projectiles - Aquatic toys - Percussion caps specially designed for use in toys and toys using percussion caps - Acoustics - Toys containing a non-electrical heat source - Small balls - Magnets	BS EN 71-1: 2005 + A9 EN 71-1: 2005 + A9 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 4.10 4.11 4.12 4.13 4.14 4.15 4.16 4.17 4.18 4.19 4.20 (with modification by using sound level meter complying with the specifications of IEC 60651 and IEC 60804) 4.21 4.22 4.23

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys (cont'd)	Physical and mechanical tests :- (cont'd) Toys intended for children under 36 months: - General requirements - Filling materials - Plastic sheeting - Cords on toys - Liquid-filled toys - Speed limitation of electrically driven toys - Glass and porcelain - Shape and size of certain toys - Toys comprising monofilament fibres - Small balls - Play figures - Hemispheric-shaped toys - Suction cups Packaging Warning and instructions for use Test methods Graphical symbol for age warning labelling	BS EN 71-1: 2005 + A9 EN 71-1: 2005 + A9 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11 5.12 5.13 6 7 8 EN 71-6: 1994

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys (cont'd)	Physical and mechanical tests :- (cont'd) - General - Packaging - Toys for children under 3 years of age - Exposed metal edges - Ends of wires - Plastic edges - Exposed wooden surfaces, edges and corners - Glass edges and corners - Fasteners - Folding mechanism, bracket and bracing - Spring-wound driving mechanism - Projectile - Toys which a child can enter - Stationary toys intended to bear the weight of a child - Dolls and soft toys - Pull and push toys - Rattles - Elastic - Batteries	Canada Hazardous Products (Toys) Regulations C.R.C., c.931 3 4 7 8(a) 8(b) 8(c) 8(d) 8(e) 8(f) 8(g) 8(h) 8(i) 8(j) 8(k) 13, 14, 15 and 19 21 25 26 27
	Toys	Test Methods Identification of prohibited products -Yo-yo balls - Sound producing toys - Kite strings	Health Canada Product Safety Laboratory / Reference Manual, Book 5 Part B Canada Hazardous Products Act Chapter H-3, Schedule I Part I 3 (test to section 4.37 of ASTM F963-08) 10(a) (test to Health Canada Product Safety Laboratory Book 5, Part B Test Method M-04(2005)) 11 (test to clause 4.13 of EN71-1:2005)

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys (cont'd)	Physical and mechanical tests :- (cont'd) Materials: - Flexible plastics sheeting - Wood - Glass - Stuffing materials - Expanding materials Construction: - Edges - Overlap joints - Fastenings - Points and wires - Components protruding from the body of the toy - Folding mechanisms - Hinges - Driving mechanisms - Springs - Dry cells - Small toy and detachable components - Non-detachable components - Toys intended to be put into the mouth - Cords and elastics on toys intended for children under 18 months of age - Toys intended to be pulled along by the child - Toys which a child can enter - Toys intended to bear the weight of a child - Heavy immobile toys - Projectiles - Non-projectile imitation weapons - Imitation protective equipment - Toys designed to produce sound when shaken and toys incorporating wires, metal rods and metal rails that are inaccessible but have sharp points and ends	Japan Toy Safety Standard ST 2002 Eighth Edition (2009.2.1) Part 1 4.1.1 4.1.2 4.1.3 4.1.4 4.1.5 4.2.1.1 4.2.1.2 4.2.1.3 4.2.1.4 4.2.1.5 4.2.1.6 4.2.1.7 4.2.1.8 4.2.1.9 4.2.1.10 4.2.2.1 4.2.2.2 4.2.2.3 4.2.2.4 4.2.2.5 4.2.2.6 4.2.2.7 < <i>Excluding the following</i> > 4.2.2.7.1, 4.2.2.7.2 and 4.2.2.7.4 4.2.2.8 4.2.2.10 < <i>Excluding the following</i> > 4.2.2.10.3 4.2.2.11 4.2.2.12 4.2.2.13

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toys (cont'd)	Physical and mechanical tests :- (cont'd) - Kites and other flying toys - Aquatic toys - Toys intended to be used by children under 18 months of age - Noise level of sound-producing toys - Large toys Test methods: Packaging Labelling	Japan Toy Safety Standard ST 2002 Eighth Edition (2009.2.1) Part 1 4.2.2.14 4.2.2.15 4.2.2.17 4.2.2.18 4.2.2.19 5 6 7

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Baby changing tables for domestic use	Safety and performance tests :- General requirements: - Sharp edges or points - Small parts - Wood parts - Openings - Item attached to non-full size baby crib/ play yard - Toys Performance requirements: - Protective components - Structural integrity - Stability - Barriers - Entrapment in enclosed openings - Entrapment by shelves Test methods Permanency of labels and warnings Marking and labeling Instructional literature	ASTM F2388-08a 5 5.1 5.2 5.4 5.5 5.6 5.7 6 6.1 6.2 6.3 6.4 6.5 6.6 7 8 9 10
	Carriages and strollers	General requirements: - Hazardous sharp edges or points - Small parts - Wood parts - Latching mechanisms - Openings - Scissoring, shearing, pinching - Exposed coil springs - Labeling - Protective components - Seat recline measurement - Toy	ASTM F833-08 5 5.1 5.2 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11 5.12

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Carriages and strollers (cont'd)	Safety and performance tests :- (cont'd) Performance requirements: - Brake requirements - Static load - Stability - Restraining system - Occupant retention - Combination unit of a car seat on a stroller - Impact Test - Passive Containment / Foot Opening Test methods Marking and labeling Instructional literature	ASTM F833-08 6 6.1 6.2 6.3 6.4 6.5 6.6 6.7 6.8 7 8 9
	Non-full-size baby cribs / play yards	General requirements: - All product corner post extensions comply with F966 - Exposed wood parts - Hazardous sharp points or edges - Small parts - Flammable solids - Scissoring, shearing or pinching - Toy - Latching and locking mechanisms - Openings - Protective components - Labeling - Stability - Cord length - Coil springs - Entrapment in Attachments - Mattress - Protrusions	ASTM F406-08a 5.1 5.2 5.3 5.4 5.6 5.7 5.8 5.9 5.10 5.11 5.12 5.13 5.14 5.15 5.16 5.17 5.18

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Non-full-size baby cribs / play yards (cont'd)	<p>Safety and performance tests :- (cont'd)</p> <p>Performance requirements for mesh/fabric products:</p> <ul style="list-style-type: none"> - Height of sides - Side deflection and strength - Floor strength - Top rail covering material - Mesh requirements - Mesh/fabric assembly requirements <p>Test methods</p> <p>Marking and labeling</p> <p>Instructional literature</p>	<p>ASTM F406-08a</p> <p>7.1</p> <p>7.2</p> <p>7.3</p> <p>7.4</p> <p>7.5</p> <p>7.7</p> <p>< <i>Excluding the following</i> ></p> <p>7.7.2</p> <p>8</p> <p>9</p> <p>10</p>

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Full-size baby crib	Safety and performance tests :- (cont'd) General requirements: - Wooden Parts - Small parts - Corner posts Performance requirements: - Mattress support system vertical impact test requirement - Crib side test requirements - Mattress support system test requirements - Crib side latch test requirements - Plastic teething rail test requirement Test methods Marking and labeling Instructional literature	ASTM F1169-07 5.1 5.3 5.4 6.1 6.2 6.3 6.4 6.5 7 8 9
	Full-size baby crib	- Dimensions - Spacing of crib components - Components spacing test method - Hardware - Construction and finishing - Assembly instructions - Identification marks, warning statement and compliance declaration - Requirements for cutouts	16 CFR Part 1508 1508.3 1508.4 1508.5 1508.6 1508.7 1508.8 1508.9 1508.11
	Non-full-size baby crib	- Crib-side height - Spacing of unit components - Components-spacing test method - Hardware - Construction and finishing - Mattresses - Assembly instructions - Identifying marks, caution statement, and compliance declaration - Requirements for cutouts	16 CFR Part 1509 1509.3 1509.4 1509.6 1509.7 1509.8 1509.9 1509.10 1509.11 1509.13

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toddler Beds	<p>Safety and performance tests :- (cont'd)</p> <p>General requirements:</p> <ul style="list-style-type: none"> - General 5.1 - Hazardous sharp edges or points 5.2 - Small parts 5.3 - Wooden parts 5.5 - Scissoring, shearing, pinching 5.6 - Protective components 5.7 - Openings 5.8 - Labeling 5.9 - Corner post extension 5.10 <p>Performance requirements:</p> <ul style="list-style-type: none"> - Mattress retention 6.1 - Mattress support system 6.2 - Mattress support system attachment to end structures 6.3 - Guardrails 6.4 - End structures 6.5 - Partially bounded openings 6.6 <p>Test methods 7</p> <p>Marking and labeling 8</p> <p>Instructional literature 9</p>	<p>ASTM F1821-06</p>

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Toddler Beds	<p>Safety and performance tests :- (cont'd)</p> <p>General requirements:</p> <ul style="list-style-type: none"> - General 5.1 - Hazardous sharp edges or points 5.2 - Small parts 5.3 - Wooden parts 5.5 - Scissoring, shearing, pinching 5.6 - Protective components 5.7 - Openings 5.8 - Labeling 5.9 - Corner post extension 5.10 <p>Performance requirements:</p> <ul style="list-style-type: none"> - Mattress retention 6.1 - Mattress support system 6.2 - Mattress support system attachment to end structures 6.3 - Mattress support system openings 6.4 - Guardrails 6.5 - End structures 6.6 - Partially bounded openings 6.7 <p>Test methods 7</p> <p>Marking and labeling 8</p> <p>Instructional literature 9</p>	ASTM F1821-09

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Expansion gates and expandable enclosures	<p>Safety and performance tests :- (cont'd)</p> <p>General requirements:</p> <ul style="list-style-type: none"> - Wood parts - Screws - Hazardous sharp edges or points - Small parts - Latching or locking mechanisms - Openings - Exposed coil springs - Scissoring - Labeling - Push-out test <p>Performance requirements:</p> <ul style="list-style-type: none"> - Completely-bounded openings - Height of sides - Vertical strength - Bottom spacing - Configuration of uppermost edge - Protective components <p>Test methods</p> <p>Marking and labeling</p> <p>Instructional literature</p>	<p>ASTM F1004-07</p> <p>5.1</p> <p>5.2</p> <p>5.3</p> <p>5.4</p> <p>5.5</p> <p>5.6</p> <p>5.7</p> <p>5.8</p> <p>5.9</p> <p>5.10</p> <p>6.1.1</p> <p>6.1.2</p> <p>6.1.3</p> <p>6.1.4</p> <p>6.1.5</p> <p>6.1.6</p> <p>7</p> <p>8</p> <p>9</p>

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Infant bouncer seats	Safety and performance tests :- (cont'd) General requirements: - Hazardous sharp edges or points - Small parts - Banned articles - Wood parts - Latching or locking mechanisms - Scissoring, shearing and pinching - Openings - Exposed coil springs - Protective components - Permanency of labels and warnings - Toys Performance requirements: - Restraint system - Stability - Slip resistance - Structural integrity - Disassembly/collapse - Drop test Test methods Marking and labeling Instructional literature	ASTM F2167-05b 5.1 5.2 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11 5.12 6.1 6.2 6.3 6.4 6.5 6.6 7 8 9
	Infant walkers	General requirements: - Regulations specified in section 2 - Exposed wood parts - Latching or locking mechanisms - Openings - Scissoring - Exposed coil springs - Labeling - Protective components - Toys Performance requirements: - Stability - Structural integrity - Prevention of falls down step(s) Test methods Marking and labeling Instructional literature	ASTM F977-07 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 6.1 6.2 6.3 7 8 9

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Wheeled child conveyances	Safety and performance tests :- (cont'd) Materials - Plastics - Coatings and finishes - All materials Construction Parking devices Folding vehicles Separate detachable bodies designed for use with a range of chassis Separate detachable bodies designed for use with a specific chassis Chassis designed for use with a range of separate detachable bodies Chassis designed for use with a specific detachable body or seat Seats Safety harness Stability Wheel security Rigidity Performance Marking Instructions on use and maintenance Test methods	BS 7409: 1996 with AMD 9270 5 5.1 5.2 5.3 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 Annexes A to X

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Wheeled child conveyances (cont'd)	Safety and performance tests :- (cont'd) Materials Construction Stability Pushchairs with rotating seat units Handle Parking devices Locking devices for the folding mechanism Longitudinal stability of a pram body with carrying handles Carrying handles and handle anchorage points of pram bodies and detachable seat units Strength and durability of attachment devices for pram bodies or seat units Restraint system and fasteners Wheel strength Irregular surface test Dynamic strength Durability of marking Plastic packaging Product information	BS EN 1888: 2003 incorporating Amendment No. 1 and Corrigendum Nos. 1, 2 and 3 EN 1888: 2003 + A1 + A2 + A3 5 6 7 8 9 10 11 12 13 14 15 <i>< Excluding the following ></i> Compliance testing of car seats to ECE 44 regulation 16 17 18 19 20 21

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TOYS and CHILDREN'S PRODUCTS (cont'd) 玩具及兒童產品 (續上)	Writing and marking instruments likely to be used by children up to the age of 14 - Safety caps	Safety and performance tests :- (cont'd)	
		Requirements: - General - Cap size - Ventilated caps air flow	BS 7272-1: 2008 3.1 3.2 3.3
	- End closures	Identification Test for air flow	4 Annex A
		Requirements: - General - Size - Security - Inaccessibility - Minimal protrusion - Air flow	BS 7272-2: 2000 4.1 4.2 4.3 4.4 4.5 4.6
- End closures	Test method Identification	6 7	
	- End closures	Requirements: - General - Size - Security - Inaccessibility - Minimal protrusion - Air flow - Additional Safeguard	BS 7272-2: 2008 4.1 4.2 4.3 4.4 4.5 4.6 4.7
		Identification Test method	7 Annex B

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ELECTRICAL and ELECTRONIC PRODUCTS 電氣及電子產品	Intentional radiators subject to 47 CFR Part 15 operating within the band of 26.96 MHz to 27.28 MHz; 49.82 MHz to 49.9 MHz; and periodic operation in the band above 70 MHz	EMC tests :- Emission tests - Measurement of radiated emission - 9 kHz to 800 MHz - 1 GHz to 18 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Verification of negligible radiated emission in a full anechoic chamber - 800 MHz to 1000 MHz	47 CFR Part 15 Subpart A and C using test methods specified in ANSI C63.4-2003 In-house method SOP-EMC-02
	Unintentional radiators subject to 47 CFR Part 15 < Including the following > - FM broadcast receiver; - Superregenerative receiver; - Class B personal computers and peripherals; - CPU boards and internal power supplies used with Class B personal computers - Class B personal computers assembled using authorized CPU boards or power supplies	- Measurement of radiated emission - 9 kHz to 800 MHz - 1 GHz to 18 GHz - Measurement of conducted emission - 150 kHz to 30 MHz - Verification of negligible radiated emission in a full anechoic chamber - 800 MHz to 1000 MHz	47 CFR Part 15 Subparts A and B using test methods specified in ANSI C63.4-2003 In-house method SOP-EMC-02
	RF lighting devices	- Measurement of radiated emission - 30 MHz to 800 MHz - Measurement of conducted emission - 9 kHz to 30 MHz - Verification of negligible radiated emission in a full anechoic chamber - 800 MHz to 1000 MHz	47 CFR Part 18 using test method specified in FCC/OET MP-5: 1986 In-house method SOP-EMC-02

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ELECTRICAL and ELECTRONIC PRODUCTS (cont'd) 電氣及電子產品 (續上)	Electric and electronic toys <Excluding the following > - Transformer toys and dual supply toys incorporating no electronic circuits Information technology equipment peripherals: - USB flash devices - USB MP3 player - USB card reader - USB joystick Electric and electronic toys:	EMC tests :- (cont'd) Emission tests (cont'd) - Measurement of terminal disturbance voltage - 148.5 kHz to 30 MHz - Measurement of radiated disturbance - 30 MHz to 800 MHz - Verification of negligible radiated emission in full anechoic chamber - 800 MHz to 1000 MHz - Measurement of radiated disturbance - 30 MHz to 800 MHz - Measurement of terminal disturbance voltage - 150 kHz to 30 MHz - Verification of negligible radiated emission in full anechoic chamber - 800 MHz to 1000 MHz Harmonic current Voltage changes, voltage fluctuations and flicker - Short-term flicker indicator, Pst - Long-term flicker indicator, Plt - Relative voltage change, d(t) - Relative steady-state voltage change, dc - Maximum relative voltage change, dmax Immunity tests - Electrostatic discharge - Fast transients - Injected currents - Radio frequency electromagnetic fields - Surges - Voltage dips and interruptions	AS/NZS CISPR 14.1: 2003 CISPR 14-1: 2005 + A1 EN 55014-1: 2006 In-house method SOP-EMC-02 AS/NZS CISPR 22: 2006 CISPR 22: 2005 + A1 + A2 EN 55022: 2006 <Excluding the following > Clause 10.8 In-house method SOP-EMC-02 EN 61000-3-2: 2006 IEC 61000-3-2: 2005 EN 61000-3-3: 2008 IEC 61000-3-3: 2008 CISPR 14-2: 1997 +A1 EN 55014-2: 1997 + A1

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TEST CATEGORY 測試類別	ITEMS, MATERIALS OR PRODUCTS TESTED 測試項目、材料或產品	SPECIFIC TESTS OR PROPERTIES MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
ELECTRICAL and ELECTRONIC PRODUCTS (cont'd) 電氣及電子產品 (續上)	Information technology equipment peripherals: - USB flash devices - USB MP3 player - USB card reader - USB joystick Electric toys and IT equipment peripherals	EMC tests :- (cont'd) Immunity tests (cont'd) - Electrostatic discharge - Electrical fast transients - Continuous radiated disturbances - Continuous conducted disturbances - Surges - Voltage dips and interruptions - Electrostatic discharge immunity test - 8 kV air discharge - 4 kV contact discharge - Radiated, radio frequency electromagnetic field - 80 MHz to 1GHz, 3V/m - Electrical fast transient/burst - 0.5/1 kV 5/50 ns 5 kHz - Surges - 0.5/1/2 kV 1.2/50 μs, 8/20 μs - Conducted disturbances induced by radio frequency fields - 150 kHz to 230 MHz, 3V - Voltage dips, short interruptions and voltage variations	CISPR 24: 1997 + A1 + A2 EN 55024: 1998 + A1 + A2 IEC 61000-4-2: 2008 EN 61000-4-2: 1995 + A1 + A2 IEC 61000-4-3: 2006 + A1 EN 61000-4-3: 2002 + A1 IEC 61000-4-4: 2004 EN 61000-4-4: 2004 IEC 61000-4-5: 2005 <Excluding the following > Clauses 6.2, 6.3.2, 7.3, 7.4, 7.5 and 7.6 EN 61000-4-5-: 1995 + A1 <Excluding the following > Clauses 6.2, 6.3.2, 7.3, 7.4, 7.5 and 7.6 IEC 61000-4-6: 2008 <Excluding the following > Clauses 6.2.1 and 6.2.3 EN 61000-4-6: 1996 + A1 <Excluding the following > Clauses 6.2.1 and 6.2.3 IEC 61000-4-11: 2004 EN 61000-4-11: 2004 <Excluding the following > for the above two standards Clause 5.2