

Chapter 6 – Restricted Substance Testing

Overview

Introduction

This section describes the restricted substance testing requirements for Kahn Lucas, Inc.

In this Chapter

The topics described in this chapter are located as indicated below:

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Restricted Substances List Requirements and Compliance for Apparel

Introduction This section describes the Kahn Lucas restricted substances list and compliance requirements for apparel.

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Restricted Substances and Compliance Letter

To: Supplier
From: David Baron
Subject: Restricted Substances and Compliance Letter

Date: June 15, 2007

Dear Supplier,

Kahn Lucas is implementing a new program to ensure our suppliers are avoiding banned substances, and when using restricted substances with limits on our products, they are in compliance with global laws and regulations within the markets we sell our products. The consequences of not meeting these limits for our Brands are significant, and could include monetary fines and publicized restrictions to manufacture specific products, which would have a detrimental impact on the reputation of our Brands with consumers. Also, as a socially responsible company, it is of critical importance for us to know that our products are safe for consumers to wear and use.

To accomplish this objective, we are implementing a process that will educate our suppliers concerning which substances are banned or restricted, identify "high risk" products and testing for restricted substances where applicable, and provide for selective mill auditing, as required. Restricted Substances (RS) test requirements will be added to the performance test list during the product adoption stage of development. The burden of proof for RS compliance will reside with our Suppliers, and we expect that you will engage your raw materials suppliers and subcontractors in a manner that ensures compliance with global laws and regulations concerning banned and/or restricted substances. Observance will be judged based on two criteria:

- 1) Supplier signature of an RSL (Restricted Substances List) Acknowledgement/Compliance Letter, verifying your understanding of our program, and your assurance that you will work within the parameters of our program, and comply with our requirements.
- 2) Product compliance verification in the form of requested test reports, submitted from one of our designated Certified Testing Labs (ITS, SGS or Bureau Veritas). The results of these test reports will be maintained by Kahn Lucas, for a period of 3 years from the date of product shipment to the consumer. We request that our suppliers also retain this information for the same 3 year period. We will accept test reports from your raw material suppliers that are performed at one of our designated Certified Testing Labs.

Further random testing verification of "high risk" products may be conducted by the respective Brands, or in select cases, by the Corporate Quality Assurance Department.

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Restricted Substances and Compliance Letter, Continued

We also reserve the right to contract for an Independent Audit of the operations of Finished Product or Raw Material Suppliers. An audit would include the completion of a Questionnaire, a mill visit to ensure RSL compliance, and educational training as necessary for a supplier. The cost of these audits would be assumed by Kahn Lucas.

Enclosed with this letter is a process map outlining how we will conduct this activity, a compliance letter for your signature, the current Restrictive Substances List, a reference chart covering guidelines for targeted substance testing, a reference chart for test methods and standards, a list of designated Certified Independent Testing Laboratories, and a negotiated price list for individual tests from each of our designated laboratories. Please sign and return the compliance letter to the piece goods department in the NY office.

Our program will commence with the Spring 2007 Season for apparel products. Your full participation in this program is essential, as the consequences of non-compliance affect each of us. We want to bring only legal, safe and clean products to market, and these new standards and the testing program will help us work together to achieve this goal

If you have any questions, please contact the piece goods department in the NY office. Thank you in advance for your cooperation in these endeavors and for your commitment to helping us produce the best possible products. We look forward to working with you on this vitally important matter

Sincerely,

David Baron
Vice President Supply Chain
Kahn Lucas, Inc.

Restricted Substances Compliance Process Map

*** Insert Process Map Here ***

Restricted Substances List

Listed below are chemical substances that are either banned from use or restricted to a certain limit in the final product by laws and regulations for your information and compliance. The substances list will change as new laws and regulations are enacted and we will accordingly update the list.

Azo dyes Listed in Table I- banned

Azo dyes incorporate one or several azo groups (-N=N-) bound with aromatic compounds. Thousands of azo dyes exist; however, only those that can degrade to form the listed amines are prohibited.

Azo dyes may be found in dyed fabric or leather.

Sensitizing Disperse Dyes Listed in Table II- banned

Disperse dyes are a class of water-soluble dyes. Those listed are prohibited because they are suspected to cause allergic reactions.

Disperse dyes are used to dye polyester, acetate and nylon.

Flame Retardants- banned

Flame-retardants are chemical compounds that can be incorporated into textiles or applied by sprays to prevent burning.

Flame-retardants may be found in textiles that do not meet flammability requirements.

Formaldehyde- restricted with limits

Formaldehyde is a volatile compound used widely in apparel and textile manufacturing as an anti-creasing and an anti-shrinking agent. In addition, formaldehyde is often used in polymeric resins (e.g. phenol-formaldehyde and urea-formaldehyde).

In apparel and textiles, formaldehyde may be found in permanent press and artificially stiffened fabric. Since formaldehyde is volatile, cross contamination of material may occur.

Pentachlorophenol (PCP), TeCP - restricted with limits

PCP is a polychlorinated compound used as a preservative to wood, leather, and textiles.

PCP has been used as an antifungal in textiles, leather, and some wood products.

TeCP is an additional phenol that is used to prevent mold in cotton and print pastes.

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Restricted Substances List, Continued

Organotin Compounds- restricted with limits

Organotins are a class of chemicals combining tin and organics such as butyl and phenyl groups. Organotins are predominately found in the environment as antifoulants in marine paint, but they can also be used as biocides (antibacterials), and / or heat stabilizers in plastics.

In textiles and apparel, organotins may be associated with plastics, inks, paints, and heat transfer material.

Polyvinyl chloride (PVC)- not yet legally restricted, best practice

PVC (also know as vinyl) is a chlorinated polymer used extensively. Vinyl products include credit cards, furniture, toys, flooring, cable/wire insulation, garden hoses, coats, and handbags.

PVC can be found in plastic items and trim in apparel and textiles. In addition, PVC can often be found in screen prints and inks.

Phthalates- restricted with limits

Phthalates are a class of organic compounds added to plastics to increase flexibility.

In textiles and apparel, phthalates may be associated with flexible plastic components, trims, screen prints, cosmetics and fragrances.

Nickel- restricted with limits

Nickel is an abundant metal often combined with other metals to create alloys with increased hardness and resistance to corrosion.

Nickel may be associated with accessories, jewelry, clothing, paints, inks, trims, plastics and metal components.

Metals (others)- restricted with limits

These metals include antimony, arsenic, barium, and selenium.

The metals antimony, arsenic barium and selenium may be **associated with synthetic fibers, accessories, jewelry, and clothing, paints, inks, trims, plastics, and metal components.**

Cadmium- restricted with limits

Cadmium is a naturally occurring and abundant metal that does not easily corrode (rust). It is often used for pigments, metal coatings, plastics (as a heat stabilizer), photographic films and batteries.

In textiles and apparel, cadmium may be associated with plastics, pigments (particularly red, orange, yellow, and green), and as a surface layer for metals.

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Restricted Substances List, Continued

Lead- restricted with limits

Lead is a naturally occurring metal important to the production of batteries, fuels, paints, plastics (as a heat stabilizer), ceramics, caulking, and solders.

In textiles apparel, accessories and jewelry, lead may be associated with plastics, paints, inks, pigments, and metal components.

The following substances are banned in the ECU and may be required by Kahn Lucas:

Chromium VI- banned

Chromium is a naturally occurring metal that can exist in three main forms (Chromium (0), Chromium (III), and Chromium (VI). In nature, Cr (III) is the predominate form, Cr (0) and Cr (VI) do not occur in nature or are rare.

In textiles apparel, chromium may be associated with plastics pigments and tanned leather.

Asbestos- banned

Asbestos is a naturally occurring group of fibrous silicate minerals. These thin, long, and flexible fibers can be woven into textiles. Asbestos fibers are strong, durable and fire resistant.

Asbestos is unlikely to be found in current textiles except for fire-fighting clothing.

Dioxins and Furans- banned

Dioxins are made up of 75 polychlorinated compounds called chlorinated dibenzo-p-dioxins. Each dioxin has a different level of toxicity based on its structure and tissue absorption qualities. Furans are also polychlorinated compounds (135 different furans exist). Dioxins and furans are structurally and toxically similar.

Dioxins/furans are common by-products of incomplete combustion (burning) of organics in a chlorine rich environment and are often associated with the production of pesticides, PVC, and other similar Chlorinated chemicals.

It is unlikely that dioxin and furan legislation will apply to apparel and textiles.

Pesticides- banned

Dieldrin and DDTB are pesticides that may have been applied to natural fibers during growth or storage.

In textiles and apparel, these pesticides may be found in natural fibers, primarily cotton.

Arsenic and its Compounds

May be residual from processing polyester fibers or used in some pesticides and defoliants for cotton.

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Restricted Substances List, Continued

Table I
Banned Azo dyes derived aromatic amines

No.	Chemical	CAS NO.
1	4-Aminodiphenyl	92-67-1
2	Benzidine	92-87-5
3	4-Chloro-o-toluidine	95-69-2
4	2-Napthylamine	91-59-8
5	o-Aminoazotoluene	97-56-3
6	2-Amino-4-nitrotoluene	99-55-8
7	p-Chloroaniline	106-47-8
8	2,4'-Diaminoaniso	615-05-04
9	4,4'-Diaminodiphenylmethane	101-77-9
10	3,3'-Dichlorobenzidine	91-94-1
11	p-Aminoazobenzene	60-09-3
12	3,3'-Dimethoxybenzidine	119-90-4
13	3,3'-Dimethylbenzidine	119-93-7
14	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0
15	p-Cresidine	120-71-8
16	4,4'-Methylene-bis(2-chloroaniline)	101-14-4
17	4,4'-Oxydianiline	101-80-4
18	4,4'-Thiodianiline	139-65-1
19	o-Toluidine	95-53-4
20	2,4'-Toluenediamine	95-80-7
21	2,4,5-Trimethylaniline	137-17-7
22	o-Anisidine	90-04-0
23	Arsenic and its Compounds	7440-38-2

Table II
Banned Disperse Dyes

No.	Chemical	CAS NO.
1	Disperse Blue, #1	2475-45-8
2	Disperse Blue, #35	12222-75-2
3	Disperse Blue, #106	12223-01-7
4	Disperse Blue, #124	61951-51-7
5	Disperse Yellow, #3	2832-40-8
6	Disperse Orange, #3	730-40-5
7	Disperse Orange, #37	12223-33-5
8	Disperse Red, #1	2872-52-8
9	Disperse Orange, #76	5184-42-8



Acknowledgement Form

Vendor Product Safety Requirements Acknowledgement and Compliance Declaration

Apparel

I hereby declare that I have received, read and fully understand the Restricted Substances List Requirements. In current and future business with Kahn Lucas Inc, I agree and commit to comply with these Requirements. I also commit to put in place business processes to ensure that each product that I supply to Kahn Lucas Inc meets and will continue to meet Restricted Substances requirements. I understand that if any apparel is found and does not comply with Restricted Substances requirements, I (a) will not be paid for the order, (b) will be liable for any fines, and (c) may lose the right to continue to do business with Kahn Lucas Inc.

Company Name:

Signature:

Name/Title:

Date:

Address:

Phone No:

Please sign and send the Form to the Piece Goods Dept., 112 W. 34th St., Ste 600, New York, NY 10120



Guidelines for Testing Apparel, Safety, Labeling and Performance

KAHN LUCAS, INC.

APPAREL/FABRIC TEST REQUIREMENT SHEET

Date: _____

SEASON: _____ PO #: _____

SUPPLIER: _____ AFTER TREATMENT: _____

QUALITY: _____ PATTERN: _____ STYLE: _____

COLOR: _____ FIBER CONTENT: _____

CARE INSTRUCTION: _____

<input type="checkbox"/> DIMENSIONAL STABILITY TO LAUNDERING (AATCC TM# 135)	<input type="checkbox"/> COLORFASTNESS TO LAUNDERING (AATCC TM# 61 2A)
<input type="checkbox"/> DIMENSIONAL STABILITY TO DRY CLEANING (AATCC TM# 159)	<input type="checkbox"/> COLORFASTNESS TO DRY CLEANING (AATCC TM# 132)
<input type="checkbox"/> FIBER CONTENT (AATCC TM# 20 / 20A)	<input type="checkbox"/> COLORFASTNESS TO NON-CHLORINE BLEACH (AATCC TM# 172)
<input type="checkbox"/> FLAMMABILITY (16 CFR Part 1610)	<input type="checkbox"/> COLORFASTNESS TO CROCKING (AATCC TM# 8)
<input type="checkbox"/> PILLING RESISTANCE (ASTM D 3512)	<input type="checkbox"/> COLORFASTNESS TO WATER (AATCC TM# 107)
<input type="checkbox"/> RESISTANCE TO FLEX ABRASION (ASTM D 3885)	<input type="checkbox"/> COLORFASTNESS TO LIGHT (AATCC TM# 16E)
<input type="checkbox"/> ABRASION RESISTANCE (MARTINDALE) (ASTM D 4966)	<input type="checkbox"/> COLORFASTNESS TO PERSPIRATION (AATCC TM# 15)
<input type="checkbox"/> TENSILE STRENGTH (ASTM D 5034-Grab Method)	<input type="checkbox"/> AZO DYES - derived AROMATIC AMINES (22) (Textiles: EN14362-1; Leather: ISO 17234)
<input type="checkbox"/> TEARING STRENGTH (ASTM D 1424- Elmendorf)	<input type="checkbox"/> AZO DYES (POLYESTER BLENDS) (Polyester: EN14362-2)
<input type="checkbox"/> YARN SLIPPAGE (ASTM D 434)	<input type="checkbox"/> CHROMIUM VI (DIN 53314)
<input type="checkbox"/> SEAM SLIPPAGE (ASTM D 434)	<input type="checkbox"/> PESTICIDES (DIELDRIN / DTTB) (US EPA Method 808 1A / 8151A)
<input type="checkbox"/> SEAM BREAKING STRENGTH (ASTM D 1663-90)	<input type="checkbox"/> DISPERSIVE DYES - SENSITIZING (9) (DIN 64231)
<input type="checkbox"/> BURSTING STRENGTH (ASTM D 3786)	<input type="checkbox"/> FORMALDEHYDE CONTENT (Textiles: JIS-L 1041, ISO 14184-1; Leather: DIN 53315)
<input type="checkbox"/> STRETCH AND RECOVERY (ASTM D 3107)	<input type="checkbox"/> HEAVY METALS (Sol Extraction by EN 71-3)
<input type="checkbox"/> CREASE RETENTION AFTER LAUNDERED (AATCC TM# 89C)	<input type="checkbox"/> NICKEL RELEASE (EN 1811 for Uncoated; EN 12472 for Coated)
<input type="checkbox"/> FABRIC SMOOTHNESS AFTER LAUNDERING (AATCC TM# 124)	<input type="checkbox"/> ORGANOTIN (TBT, TPhT, DBT) (Ethanol Extraction and Analysis by GC-MS or LC-MS)
<input type="checkbox"/> SEAM SMOOTHNESS AFTER LAUNDERING (AATCC TM# 88B)	<input type="checkbox"/> PENTACHLOROPHENOL (PCP) (Textiles: 35 LMBG B82.02-8; Leather: DIN 53313)
<input type="checkbox"/> WATER REPELLENCY-SPRAY TEST (AATCC TM# 22)	<input type="checkbox"/> PHTHALATES (6) (Solvent Extraction and Analysis by GC-MS or LC-MS)
<input type="checkbox"/> WATER RESISTANCE-RAIN TEST (AATCC TM# 35)	<input type="checkbox"/> LEAD (Paints / Surface Coating) US 16 CFR 1303 (ASTM E 1613 / E 1645)
<input type="checkbox"/> WATER DROP TEST (AATCC TM# 79)	<input type="checkbox"/> CADMIUM (M-D & ICP Analysis for Total Metal cont,ASTM E1645/E1613 for Surf Coat)
<input type="checkbox"/> OIL DROP TEST (AATCC TM# 118)	<input type="checkbox"/> FLAME RETARDANTS (6) (Solvent Extraction and Analysis by GC-MS or LC-MS)
<input type="checkbox"/> FABRIC WEIGHT (ASTM D 3776)	
<input type="checkbox"/> PILE RETENTION OF CORDUROY (ASTM D 4685)	
<input type="checkbox"/> pH FOR WHITES (F.S. Universal pH Indicator)	<input type="checkbox"/> pH AATCC TM # 81
<input type="checkbox"/> FROSTING (AATCC TM# 119)	<input type="checkbox"/> LIQUID/GEL APPLIQUES (TOXICITY) Liquid Toxicology Test, 16 CFR Part 1500
<input type="checkbox"/> INDIGO OZONE FASTNESS (AATCC TM# 109 2 Cycles)	<input type="checkbox"/> SMALL PARTS / CHOCKING HAZARD 16 CFR PART 1501.4, ASTM F 963, 4.6.1
<input type="checkbox"/> COLORFASTNESS TO DYE TRANSFER IN STORAGE (AATCC TM# 163)	<input type="checkbox"/> TENSION TEST ASTM F 963 Section 8.9
	<input type="checkbox"/> SHARP POINTS / EDGES ASTM F 963 Sections 4.7, 4.8, and 4.9
	<input type="checkbox"/> TORQUE TEST ASTM F 963 Section 8.8
	<input type="checkbox"/> DRAWSTRINGS US: CPSC's DRAWSTRINGS GUIDELINES
	<input type="checkbox"/> POMPOMS ASTM F 963 Sections 8.17, 8.8, and 8.81

Restricted Substance Test Methods and Standards

Restricted Substance	CAS Number	Test Method	Maximum Limits
Azo Dyes		Textiles: EN14362-1 Polyester: EN14362-2 Leather: ISO 17234	No detection (See DL)
4-Aminodiphenyl	92-67-1	Detection Limit (DL) 30 ppm	
Benzidine	92-87-5		
4-Chloro-o-toluidine	95-69-2		
2-Napthylamine	91-59-8		
o-Aminoazotoluene	97-56-3		
2-Amino-4-nitrotoluene	99-55-8		
p-Chloroaniline	106-47-8		
2,4'-Diaminoanisole	615-05-04		
4,4'-Diaminodiphenylmethane	101-77-9		
3,3'-Dichlorobenzidine	91-94-1		
p-Aminoazobenzene	60-09-3		
3,3'-Dimethoxybenzidine	119-90-4		
3,3'-Dimethylbenzidine	119-93-7		
3,3'-Dimethyl-4, 4'-diaminodiphenylmethane	838-88-0		
p-Cresidine	120-71-8		
4,4'-Methylene-bis(2-chloroaniline)	101-14-4		
4,4'-Oxydianiline	101-80-4		
4,4'-Thiodianiline	139-65-1		
o-Toluidine	95-53-4		
2,4'-Toluenediamine	95-80-7		
2,4, 5-Trimethylaniline	137-17-7		
o-Anisidine	90-04-0		

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Restricted Substance Test Methods and Standards, Continued

Restricted Substance	CAS Number	Test Method	Maximum Limits
Disperse Dyes Disperse Blue, #1 Disperse Blue, #35 Disperse Blue, #106 Disperse Blue, #124 Disperse Yellow, #3 Disperse Orange, #3 Disperse Orange, #37 Disperse Orange, #76 Disperse Red, #1	2475-45-8 12222-75-2 12223-01-7 61951-51-7 2832-40-8 730-40-5 12223-33-5 51811-42-8 2872-52-8	DIN 54231 Detection Limit 5 mg/L	No detection
Formaldehyde	50-00-0	JIS-L 1041; ISO 14184-1 (Textiles) DIN 53315 (Leather)	20 ppm for kids under 3 years 75 ppm for others
Heavy Metals Cadmium (Cd) Lead (Pb) Mercury (Hg) Arsenic (An) Antimony (Sb) Barium (Ba) Selenium (Se) Chromium (Cr)	7440-43-9 7439-92-1 7439-97-6 7440-38-2 7440-36-0 7440-39-3 7782-49-2 7440-47-3	Microwave Digestion and ICP Analysis for Thermoplastics and Inks Soluble Extraction by EN 71-3 for others	75 ppm 90 ppm 60 ppm 25 ppm 60 ppm 1000 ppm 500 ppm 60ppm

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Restricted Substance Test Methods and Standards, Continued

Restricted Substance	CAS Number	Test Method	Maximum Limits
Nickel Release	7440-02-0	EN 1811 for Uncoated items EN 12472 and EN 1811 for Coated items	0.5 ug/cm ² / week 0.2 ug/cm ² / week for piercing jewelry assembly
Lead (Surface Coating)	7439-92-1	US: 16CFR1303 ASTM E1613 / E1645	0.06% by weight total lead
Chromium VI	7440-47-3	DIN 53314 Detection Limit 3 ppm	No detection
Cadmium	7440-43-9	Microwave Digestion and ICP Analysis for Total metal content ASTM E1645 / E 1613 for Surface Coating	75 ppm
Flame Retardant		Solvent Extraction and Analysis by GC-MS or LC-MS Detection Limit 5 ppm	No detection
Bis (2,3-dibromopropyl) phosphate	5412-25-9		
Octabromodiphenyl ether (OctaBDE)	32536-52-0		
Pentabromodiphenyl ether (PentaBDE)	32534-81-9		
Polybromobiphenyls (PBB)	59536-65-1		
Tris (1-aziridinyl) phosphine oxide (TEPA)	545-55-1		
Tris-(2,3-dibromopropyl)-phosphate (TRIS)	126-72-7		

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Restricted Substance Test Methods and Standards, Continued

Restricted Substance	CAS Number	Test Method	Maximum Limits
Phthalates Di-Isononyl phthalate (DINP) Di (ethylhexyl) phthalate (DEHP) Diiso-decyl phthalate (DIDP) Di-n-octyl phthalate (DNOP) Butyl benzyl phthalate (BBP) Dibutyl phthalate (DBP)	 28553-12-0 117-81-7 26761-40-0 117-84-0 85-68-7 84-74-2	Solvent Extraction and Analysis by GC-MS or LC-MS	500 ppm total for ages 0 - 6 years
Organotin Compounds Tributyltin (TBT) Triphenyltin (TPhT) Dibutyltin (DBT)	56573-85-4 668-34-8 1002-53-5	Ethanol Extraction and Analysis by GC-MS or LC-MS	1 ppm (Total)

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Restricted Substance Test Methods and Standards, Continued

Restricted Substance	CAS Number	Test Method	Maximum Limits
Phenols Pentachlorophenol (PCP), its salts and esters Tetrachlorophenol (TeCP), its salts and esters	87-86-5 25167-83-3	Textiles: 35 LMBG B82.02- Leather: DIN 53313 Detection Limit 1 ppm	5ppm No detection
Pesticides - Dieldrin, DTTB	60-57-1	GC-MS US EPA Method 808 1A Detection Limit 1 ppm	No detection
Perfluorooctane Perfluorooctane Sulfonate (PFOS) Perfluorooctanic Acid (PFOA)	2795-39-3 3825-1	Solvent Extraction and Analysis By LC-MS	Trace Level (1ppm) Trace Level (1ppm)

DL = Detection Limit- provided for laboratory use during testing

Designated Laboratories for Restricted Substances Testing

Kahn Lucas will accept test results from any certified labs to include the following list:

Bureau Veritas

America - USA

Bureau Veritas Consumer Products Services, Inc.

Address: 100 Northpointe Parkway
Buffalo, New York 14228-1884
USA

Telephone: 1-716-505-3300
Fax: 1-716-505-3301

MEXICO

Merchandise Testing Laboratories S.A. de C.V.

Address: Circuito del Sol #3905-1
Colonia, Nuevo Amanecer,
Puebla, Pue. Mexico CP 72400

Telephone: 52-222-266-0560/ 0561/ 0562
Fax: 52-222-266-0563

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Designated Laboratories for Restricted Substances Testing, Continued

Europe - **GERMANY**

Merchandise Testing Laboratories (Germany) Ltd.

Address: W. -Hennemannstr. 8, D-19061
Schwerin, Germany
USA

Telephone: 49-385-395370
Fax: 49-385-3953720

Asia and Australia – **HONG KONG**

Bureau Veritas Consumer Products Services (Hong Kong) Ltd.

Address: Unit 19, 13/F, Vanta Industrial Centre,
21-33 Tai Lin Pai Road
Kwai Chung, N.T., Hong Kong

Telephone: 852-2418-1222
Fax: 852-2480-6666

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Designated Laboratories for Restricted Substances Testing, Continued

CHINA

Shanghai SIC-MTL Testing Co. Ltd

Address: No. 66, Guanghua Road,
Zhuanqiao Town, Minhang,
Shanghai, China. Post Code: 201108

Telephone: 86-21-64890245/ 64898934/ 64894228/ 64894457

Fax: 86-21-64890042/ 64899421

TAIWAN

Bureau Veritas Consumer Products Services (Hong Kong) Ltd. -
Taiwan

Address: The AETNA Tower, 2F(2A1), No. 27,
Chung Cheng E. Road, Sec. 2,
Tamshui, Taipei Hsien, Taiwan

Telephone: 886-2-8809-2200

Fax: 886-2-8809-1200

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Designated Laboratories for Restricted Substances Testing, Continued

SGS Testing

HONG KONG

SGS Hong Kong Limited

5/F – 8/F & 28/F, Metropole Square
2 On Yiu Street, Siu Lek Yuen Shatin,
Hong Kong

Telephone: 852 2774 7191
Fax: 852 2330 4862

TAIWAN

SGS Taiwan Ltd. – Kaohsiung Chemical
Laboratory
208, Chung Hwa 2nd Road
San Min District
Kaohsiung, Taiwan

Telephone: 886 7323 0920
Fax: 886 7321 5489

CHINA

SGS- CSTS Standards Technical Services
Co. Ltd. - Shanghai
1/F, 3rd Building,
No. 889 Yishan Road,
Xuhui District
Shanghai 200233, China

Telephone: 86 21 5464 4550
Fax: 86 21 5450 6001
86 20 8216 9560

CHINA

SGS- CSTS Standards Technical Services
Co. Ltd. - Guangzhou
2/F 198 Kezhu Road, Sciencetech Park,
Guangzhou Economic & Technology
Development District
Guangzhou, Guangdong, CHINA 510663

Telephone: 86 20 8215 5656
86 20 8207 5166
Fax: 86 20 8207 5161

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Designated Laboratories for Restricted Substances Testing, Continued

SGS Testing

KOREA

SGS Testing Korea Co. Ltd. - Seoul
5/F, 18-34 Sanbond-dong
Gunpo, Gyeonggi-go
Korea

Telephone: 82 31 428 5750

Fax: 82 31 427 2374

KOREA

SGS Testing Korea Co. Ltd. - Ulsan
Green Testing Center
1002-2 Hwasan-ri, Onsan-eup,
Ulju-gun, Ulsan, Korea

Telephone: 82 52 239 6908-10

Fax: 82 52 239 6913

THAILAND

SGS (Thailand) Ltd.
41/23 Rama 3 Soi 59
Rama 3 Road, Chongnonsee
Yannawa Bangkok 10120
Thailand

Telephone: 66 2 294 748 5

Fax: 66 2 294 748 4

TURKEY

SGS Supervise Gozetme Etud Kontrol
Servisleri A.S.
Abidei Hurriyet Cad. Gecit Sok.
No: 10 Kat 1-2-3-4 Sisli
34381 Istanbul, Turkey

Telephone: 90 212 225 00 34

Fax: 90 212 296 47 82

INDIA

SGS Indian Private Limited
1/509 A Old Mahabalipuram Road
(Opp Govt. School) Thoraipakkam
Chennai 600 096

Telephone: 044 5231 6663

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Designated Laboratories for Restricted Substances Testing, Continued

INTERTEK Testing (ITS)

ASIA

CHINA

Guangzhou (Huangpu)
Intertek Testing Services Guangzhou Ltd
3/F Hengyun Building
728 Kai Fa Ave
Guangzhou Economic & Technological
Development District
Guangzhou 510730 China

Telephone: +86 20 2232 1668 / 8396 6868
Fax: +86 20 8222 7490 / 8222 8135

CHINA

Shanghai
Intertek Testing Services Ltd., Shanghai
Textiles Testing Division
2/F No. 2 Building
Shanghai Comalong Industrial Park
889 Yishan Road
Shanghai 200233 China

Telephone: +86 21 61206060
Fax: +86 21 6485 0592

HONG KONG – Regional HQ

Intertek Testing Services (Hong Kong) Ltd
2/F Garment Centre
576 Castle Peak Road
Kowloon Hong Kong China

Telephone: +852 2173 8888
Fax: +852 2786 1903

CHINA

Intertek Testing Services Shenzhen Ltd
7/F, Shekou Technology Main Building
Industrial 7th Road, Shekou, Shenzhen
China 518067

Telephone: +86 755 268 370 ext 093/068
Fax: +86 755 2683 7118/9

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Designated Laboratories for Restricted Substances Testing, Continued

INTERTEK Testing (ITS)

INDIA

Bangalore
Intertek Testing Services India Private
Ltd – Bangalore
No. 1, First Floor
South End Road
Kumara Park (East)
Bangalore 560001 India

Telephone: +91 80 5535 8055

INDIA

New Delhi
Intertek Testing Services India Private Ltd
Plot No 60 Okhla Industrial Estate
Phase III New Delhi 110 020
India

Telephone: +91 11 2631 9028 / 9808
Fax: +91 11 2631 9512

INDIA

Mumbai
Intertek Testing Services India Private Ltd
Godrej Soaps Complex Unit No. 4
Pirojshanagar
Eastern Express Highway
Vikhroli (East)
Mumbai 400 079 India

Telephone: +91 22 5597 6900
Fax: +91 22 5503 1088/1087

INDIA

Tirupur
Intertek Testing Services India Private Ltd
NEW INTERTEK TIRUPUR ADDRESS
Intertek Testing Services India Pvt Ltd
Aristo International Building
10, Mahaveer Colony
Sabapathipuram
Tiruppur – 641 601.

Telephone: +421-2232803-806
Fax: +421-2232 800-02

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Designated Laboratories for Restricted Substances Testing, Continued

INTERTEK Testing (ITS)

INDONESIA

PT Intertek Utama Services
Citrabuana Indoloka Building
Jalan Cikini 1V no.2, Gondangdia
Jakarta 10330, Indonesia

Telephone: +62 21 391 8584, 391 8342

Fax: +62 21 3941 8345

KOREA

Associate
FITI Testing and Research Institute
892-64 Chegidong
Dongdaemum-Gu Seoul 130-062 Korea

Telephone: +82 2 3299 8021

Fax: +82 2 3299 8153

THAILAND

Intertek Testing Services India Thailand Ltd
5/1 Phaholyothin 28
Phaholyothin Road
Bangkok 10900, Thailand

Telephone: +66 2 930 6554 / 939 0661

Fax: +66 2 939 0669

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Designated Laboratories for Restricted Substances Testing, Continued

INTERTEK Testing (ITS)

AMERICAS

MEXICO

Intertek – Labtest
Ave. Alvaro Obregon 286 4th Floor
Colonia Roma CP 06700
Mexico D.F. Mexico

Telephone: +52 55 5063 7190
Fax: +52 55 5211 5030

USA

New Jersey – North America Regional HQ
Intertek – Labtest
70 Diamond Road
Springfield, NJ 07081 USA

Telephone: +1 973 924 2500
Fax: +1 973 379 5232

EUROPE, AFRICA & MIDDLE EAST

FRANCE

Regional HQ – France
Intertek Testing Services (France) SARL
91 Rue Du General De Gaulle
27100 Le Vaudreuil, France

Telephone: +33 2 32 093 636
Fax: +33 2 32 093 637

GERMANY

Associate
Ports & Partner GmbH
Umweltanalytik, Warenprüfung und
Ingenieurleistung
Königsstraße 125-127
D-90762 Fürth

Telephone: +49 (0)611 7165 700
Fax: +49 (0)611 7165 789

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Designated Laboratories for Restricted Substances Testing, Continued

INTERTEK Testing (ITS)

ITALY

Intertek Labtest srl
Viale Europa, 66A
I-50018 Scandicci - Florence, Italy

Telephone: +39 055 79 08 73

Fax: +39 055 79 11 98

MAURITIUS

Intertek (Mauritius) Limited
2nd Floor, Noor Building
Royal Road,
Phoenix, Mauritius

Telephone: +230 698 0343

Fax: +230 697 5402

MOROCCO

Intertek Testing Services Labtest Maroc
213, Rond Point d'Europe, 20100
Casablanca, Morocco

Telephone: +212 22 298181

Fax: +212 22 298190

PORTUGAL

Labtest Portugal Testes Laboratorias Lda
Rua Antero de Quental
221 Sala 102, 4450 Matosinhos, Portugal

Telephone: +351 22 999 8080

Fax: +351 22 999 8081

TURKEY

Intertek Test Hizmetleri (AS) Turkey
Fatih Caddesi
Dereboyu Sok, No. 4 Kat 2
Halkali 34303, Istanbul Turkey

Telephone: +90 212 471 0065

Fax: +90 212 471 1172

UNITED KINGDOM - Leigh

Intertek Testing Services
The Warehouse, Brewery lane
Leigh, Lancashire WN7 2RJ UK

Telephone: +44 1942 265700

Fax: +44 1942 670788

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Designated Laboratories for Restricted Substances Testing, Continued

LOCAL LABORATORIES

KOREA

KOTITI

819-5, Yoksam-1, Dong, Gangnam-Gu,
Seoul, 135-932, Korea

Telephone: +822-3452-7101

Fax: +822-3451-7171

TURKEY

Ekoteks Laboratuar Isletmeleri Ltd. Sti.

Esenyurt Firuzkoy Yolu No: 29 34840

Avcilar-Istanbul, Turkiye

Telephone: +90 212 676 7866

Fax: +90 212 695 2031

Prices for Restricted Substances Testing

Restricted Substances Testing Prices for Asia

Listed below are discounted prices for restricted substances testing from SGS Testing (SGS), Intertek Testing Services (ITS), Bureau Veritas Laboratories (BV), and KOTITI (Korea).

INDIVIDUAL TEST PRICES

SUBSTANCE	ITS	SGS	BV	KOTITI
Heavy Metals	62.00	50.00	50.00	62.00
Formaldehyde	27.00	27.00	27.00	27.00
Disperse Dye-Sensitizing	67.00	58.00	58.00	58.00
Organotin (TBT, TPhT, DBT)	85.00	60.00	60.00	72.00
Chromium VI	31.00	31.00	31.00	31.00
Phthalates	90.00	81.00	81.00	81.00
Nickel Release	50.00	50.00	50.00	50.00
Azo Dyes	50.00	35.00 / 50.00	35.00 / 50.00	50.00
Azo Dyes (Polyester Blends)	50.00	50.00	50.00	50.00
Pentachlorophenol (PCP)	41.00	41.00	41.00	41.00
Dieldrin / DTTB	117.00	117.00	117.00	117.00

Prices for Restricted Substances Testing, Continued

TESTING PRICES FROM BUREAU VERITAS LABORATORIES (BV)

No.	TESTS	PRICES (US \$)
1	Fiber Content (depending on test method required for the product)	11.50 – 115.00
2	Dimensional Stability – Wash / Dry / Clean	29.00 / 18.00
3	Colorfastness to Washing	26.00
4	Colorfastness to Dry Cleaning	10.00
5	Colorfastness to Non-Chlorine Bleach	27.00
6	Colorfastness to Crocking	6.00
7	Colorfastness to Perspiration	9.00
8	Colorfastness to Light (10 Hrs / 20 Hrs)	8.00 / 11.00
9	Colorfastness to Water Spotting	6.00
10	Flammability (General Wearing Apparel)	29.00
11	Lead Content (Prints / Surface Coating)	16.00
12	Heavy Metals	50.00
13	Chromium VI	31.00
14	Formaldehyde Content	27.00
15	Azo Dyes (Natural / Synthetic Textiles)	35.00 / 50.00
16	Sensitizing Disperse Dyes	58.00
17	Phthalates	81.00
18	Cadmium	16.00
19	Nickel Release	50.00
20	Organotin Compounds	60.00
21	Pentachlorophenol (PCP)	41.00
22	Perfluorooctane (PFOA and PFOS)	77.00
23	Flame Retardants (FR)	135.00
24	Liquid / Gel Filled Appliques (Toxicity)	96.00
25	Small Parts Test / Choking Hazard	30.00
26	Tension / Torque Test	
27	Sharp Point / Edge Test	
28	Drawstrings / Pom Poms Test	
29	Cleanability	13.00
30	pH Test	13.00

Prices for Restricted Substances Testing, Continued

INDIVIDUAL TESTS	Asia	India	Middle East	Central America	USA Europe
	Package Price				
Wearing Apparel Flammability (Suspect Fabrics)	\$ 28.00	\$ 19.00	\$ 39.00	\$ 43.00	\$ 81.00
Fiber Analysis (Two Fibers)	\$ 18.00	\$ 9.00	\$ 18.00	\$ 24.00	\$ 89.00
Each Additional Fiber	\$ 9.00	\$ 9.00	\$ 10.00	\$ 13.00	\$ 44.00
Formaldehyde (JIS 1041 law 112)	\$ 37.00	\$ 18.00	\$ 35.00	\$ 50.00	\$ 141.00
Dimensional Stability to Laundering	\$ 25.00	\$ 8.00	\$ 23.00	\$ 31.00	\$ 55.00
Seam Strength	\$ 14.00	\$ 9.00	\$ 20.00	\$ 17.00	\$ 50.00
Tensile Strength	\$ 13.00	\$ 9.00	\$ 16.00	\$ 14.00	\$ 51.00
Abrasion	\$ 14.00	\$ 24.00	\$ 16.00	\$ 14.00	\$ 96.00
pH	\$ 13.00	\$ 4.00	\$ 11.00	\$ 15.00	\$ 44.00
Colorfastness to Laundering or Dry Cleaning	\$ 10.00	\$ 6.00	\$ 12.00	\$ 12.00	\$ 40.00
Colorfastness To Non-chlorine Bleach	\$ 8.00	\$ 6.00	\$ 10.00	\$ 11.00	\$ 36.00
Colorfastness To Crocking	\$ 7.00	\$ 3.00	\$ 8.00	\$ 8.00	\$ 27.00
Colorfastness to Perspiration	\$ 11.00	\$ 8.00	\$ 12.00	\$ 14.00	\$ 35.00
Colorfastness To Light (20 AFU)	\$ 19.00	\$ 25.00	\$ 23.00	\$ 18.00	\$ 43.00
Colorfastness To Water Spotting	\$ 8.00	\$ 6.00	\$ 9.00	\$ 8.00	\$ 28.00
Tension Test on Components (5 pc.)	\$ 15.00	\$ 25.00	\$ 15.00	\$ 15.00	\$ 46.00
Snap/Button Attachment Strength	\$ 15.00	\$ 25.00	\$ 15.00	\$ 15.00	\$ 46.00
Nickel Release	\$ 50.00	*	*	*	*
Snap Unsnapping Strength	\$ 13.00	\$ 24.00	\$ 18.00	\$ 15.00	\$ 74.00
Cleanability	\$ 21.00	*	*	*	\$ 48.00
Chromium VI "Europe"	\$ 31.00	*	*	*	\$ 75.00
Sensitizing Disperse Dyes "Europe"	\$ 58.00	*	*	*	*
Phthalates "Europe"	\$ 81.00	*	*	*	*
Cadmium "Europe"	\$ 17.00	*	*	*	\$ 36.00
Lead Content (Paints/ Surface Coating)	\$ 17.00	\$ 25.00	*	*	\$ 35.00
Heavy Metals	\$ 50.00	*	*	*	\$ 150.00
Organotin Compounds "Europe"	\$ 60.00	*	*	*	*
Azo Dyes	\$ 42.35	*	*	*	*
Pentachlorothenol (PCP) "Europe"	\$ 41.00	*	*	*	*
Perfluorooctane (PFOA and PFOS)	\$ 230.00	*	*	*	*
Isocyanates	\$ 150.00	*	*	*	*
Flame Retardants (FR) "Europe"	\$ 100.00	*	*	*	\$ 240.00
Liquid Gel Filled Appliqués (Toxicity):					
Solvent Quantitative Analysis (GC Method)	\$ 178.00	*	*	*	*
Flash Point Test (ASTM D92)	\$ 31.00	*	*	*	*
USP <51> Antimicrobial Preservative Effectiveness	\$ 526.00	*	*	*	*
USP <61> Microbial Limits	\$ 139.00	*	*	*	*
Liquid Ingredients Preview	\$ 74.00	*	*	*	*
Small Parts Tests Chocking Hazard	\$ 35.00	*	*	*	\$ 50.00
Sharp Point Edge Test	\$ 8.00	*	*	*	\$ 26.00
Drawstrings Pom Poms Test	\$ 8.00	*	*	*	\$ 26.00
Zipper Strength:					
Chain crosswise strength	\$ 11.00	\$ 15.00	\$ 12.00	\$ 11.00	\$ 35.00
Top stop holding	\$ 9.00	\$ 15.00	\$ 12.00	\$ 11.00	\$ 35.00
Bottom stop holding	\$ 9.00	\$ 15.00	\$ 12.00	\$ 11.00	\$ 35.00
Pull-off of slider pull	\$ 9.00	\$ 15.00	\$ 12.00	\$ 11.00	\$ 35.00
Minimum Report Charge	\$ 23.00	\$ 4.00	\$ 28.00	\$ -	\$ 110.00