

# NEW BALANCE ATHLETICS, INC. RESTRICTED SUBSTANCES MANUAL



**VERSION 2019**

Use link to verify most current version of the Manual: <http://www.newbalance.com/inside-nb-environment.html>

Dear Suppliers,

New Balance Athletics Inc., and its affiliates (collectively New Balance or NB) are committed to operating its business in an environmentally safe and sustainable manner to protect the consumer, worker, environment, and the brand. This **RESTRICTED SUBSTANCES MANUAL** (RSM), effective as of **APRIL 1, 2019**, is an integral part of this commitment. The compliance guidelines are intended to help users understand and comply with the RSM requirements. The RSM must be shared with all suppliers – both factories producing finished products and suppliers of raw materials and components used to produce New Balance footwear, apparel, equipment, and accessories.

Each supplier is required to understand, agree to, comply with, and declare that the raw materials, component parts, chemicals, finished products and sundries used and supplied or otherwise delivered to New Balance comply with the prohibitions, limitations and other provisions described or referred to in the RSM.

### THE GOALS OF NEW BALANCE RESTRICTED SUBSTANCES MANUAL ARE:

1. To ensure that materials provided and methods used in manufacturing New Balance products comply with the strictest global legislation with regards to the environment, health, and product safety.
2. To prohibit or limit the use of all targeted substances in the RSM in all New Balance products.
3. To encourage suppliers to take a **proactive** stance in decreasing the environmental impacts of all products supplied to New Balance by:
  - Ensuring materials and components are non-toxic in use and disposal;
  - Using materials in manufacturing products which do not involve toxic releases or damage to the environment;
  - Striving to make materials from renewable and organic resources that are recyclable or biodegradable; and
  - Manufacturing products, including components and materials under the best environmental conditions.

Thank you for your cooperation in ensuring that New Balance products are compliant with the RSM requirements.

Sincerely,

**THE SENIOR LEADERSHIP TEAM, NEW BALANCE ATHLETICS, INC.**

## TABLE OF CONTENTS

---

TABLE OF ACRONYMS.....	1
CORPORATE REQUIREMENTS .....	2
1. RSM COMPLIANCE TIMEFRAME .....	2
2. SUPPLIER CERTIFICATE OF ACKNOWLEDGEMENT .....	2
3. SUPPLIER RESPONSIBILITIES .....	2
4. POLICY ON UNDUE INFLUENCE .....	3
5. PRODUCT CHEMISTRY & COMPLIANCE TEAM CONTACTS .....	3
IMPLEMENTATION, TESTING & AUDIT REQUIREMENTS .....	4
1. TESTING METHODOLOGY .....	4
2. RSL APPROVAL TIMEFRAME .....	5
3. INITIATED ROUTINE TESTING.....	5
3.1 FOOTWEAR MATERIALS RSL TESTING .....	5
3.2 FINISHED SHOE RSL/REACH SVHC TESTING .....	7
3.3 APPAREL RSL TESTING .....	8
3.4 EQUIPMENT RSL TESTING .....	11
4. RANDOM TESTING .....	13
5. SUPPLIER INITIATED TESTING .....	13
6. TESTING FAILURE NOTIFICATION PROCESS .....	13
APPROVED LABORATORIES .....	14
1. LABORATORY APPROVAL PROCESS .....	14
2. APPROVED LABORATORY LOCATIONS.....	15
3. LABORATORY RESPONSIBILITIES .....	17
4. ANNUAL AUDIT PROGRAM FOR APPROVED LABORATORIES.....	18
5. CORRELATION TEST FOR 3 <sup>RD</sup> PARTY TESTING LABORATORIES .....	18
RESTRICTED SUBSTANCES LISTS.....	19
1. FINISHED PRODUCT RESTRICTED SUBSTANCES LIST .....	20
2. PACKAGING RESTRICTED SUBSTANCES LIST.....	32
3. ELECTRONIC & ELECTRICAL EQUIPMENT RESTRICTED SUBSTANCES LIST .....	32
4. MANUFACTURING RESTRICTED SUBSTANCES LIST.....	33
5. FACTORY CHEMICAL INFORMATION LIST.....	35
GUIDANCE ON SPECIFIC CHEMISTRIES & SUBSTANCES .....	36

1. ANTIMICROBIAL SUBSTANCES .....	36
2. NATURAL LATEX .....	36
3. NANOTECHNOLOGY MATERIALS.....	36
4. POLYVINYL CHLORIDE .....	36
5. PERFLUORINATED CHEMICALS .....	37
RESTRICTED SUBSTANCES MANAGEMENT BEST PRACTICES .....	38
1. GENERAL PRACTICES TO AVOID RESTRICTED SUBSTANCES.....	38
2. RSL SUPPLIER CERTIFICATION PROGRAM .....	38
3. RSL ONLINE TRAINING .....	38
KEY REGULATIONS.....	39
1. CPSIA AND CHILDREN'S PRODUCTS REGULATIONS .....	39
2. PROPOSITION 65.....	39
3. REACH .....	39
4. U.S. STATES CHEMICAL REPORTING LAWS.....	40
OTHER POLICY INITIATIVES .....	41
1. LICENSEE PRODUCT COMPLIANCE PROGRAM .....	41
2. ANIMAL MATERIALS POLICY .....	41
3. POLICY ON CONFLICT MINERALS .....	42
4. POLICY ON UZBEKISTAN COTTON .....	42
GREEN CHEMISTRY, ALTERNATIVES, & CHEMICAL PHASE OUT.....	43
1. GREEN CHEMISTRY RESOURCES .....	43
2. ALTERNATIVE ASSESSMENTS .....	44
3. PVC/PHthalate-FREE PRINTING INKS .....	46
TESTING GUIDELINES & RISK MATRICES .....	47
APPENDIX 1: CERTIFICATE OF ACKNOWLEDGEMENT (COA).....	51
APPENDIX 2: RSL TEST REQUEST FORM (TRF) .....	52
APPENDIX 3: RSL CORRECTIVE ACTION REQUEST (CAR).....	53
APPENDIX 4: ASBESTOS, DIOXINS & FURANS, FLUORINATED GREENHOUSE GASES, & PESTICIDES...	54
APPENDIX 5: CHEMICAL INFORMATION LIST (CIL) TEMPLATE.....	57

## TABLE OF ACRONYMS

<b>BV</b>	Bureau Veritas	<b>PD</b>	NB Product Development Team
<b>CAR</b>	Corrective Action Request Form	<b>PDL</b>	NB Product Development Lead
<b>CAS</b>	Chemical Abstract Service	<b>PDS</b>	NB Product Development Specialist
<b>CIL</b>	Chemical Inventory List	<b>POC</b>	Point of Contact
<b>COA</b>	Certificate of Acknowledgement	<b>PPM</b>	Parts Per Million
<b>CPSIA</b>	Consumer Product Safety Improvement Act	<b>REACH</b>	Registration, Evaluation, Authorization and Restriction of Chemical Substances
<b>EEE</b>	Electronic and Electrical Equipment	<b>RSM</b>	New Balance Restricted Substances Manual
<b>EU</b>	European Union	<b>RS</b>	Restricted Substance
<b>MDL</b>	Method Detection Limit	<b>RSL</b>	New Balance Restricted Substances List
<b>MSDS</b>	Material Safety Data Sheet	<b>SOP</b>	Standard Operating Procedure
<b>MRSL</b>	Manufacturing Restricted Substances List	<b>SVHC</b>	Substance of Very High Concern
<b>N/A</b>	Not Applicable	<b>TRF</b>	Test Request Form
<b>NB</b>	New Balance Athletics, Inc. and Affiliates	<b>QTR</b>	Quarter
<b>OM</b>	NB Factory Operations Manager	<b>ZDHC</b>	Zero Discharge of Hazardous Chemicals
<b>PCT</b>	Product Chemistry and Compliance Team		

## CORPORATE REQUIREMENTS

---

### 1. RSM COMPLIANCE TIMEFRAME

The New Balance Restricted Substances Manual (RSM), or Manual, Version 2019 will apply to all production orders manufactured from April 1, 2019 to the later of March 31, 2020 or the effective date of the next version of this Manual. Compliance with the standards contained in the RSM is **mandatory** for all NB products. The RSM version 2018 will remain in effect through March 31, 2019.

### 2. SUPPLIER CERTIFICATE OF ACKNOWLEDGEMENT

All NB suppliers are required to complete, sign and submit to NB the Certificate of Acknowledgement (see Appendix 1). The Certificate of Acknowledgement (COA) is to be completed by a senior executive or manager. All fields must be completed without altering the document in any way and submitted to the NB Product Chemistry Team (PCT) within two weeks of receipt of the Manual. A signed COA is required in order to be an approved supplier to New Balance.

New Balance uses the COA to track receipt of the RSM and the supplier's commitment to comply with all of its requirements for all materials supplied and used in NB products. A COA is required whenever a new version of the RSM is issued. In the event of failure to comply with the RSM requirements, NB reserves the right to terminate all outstanding orders without any further payments and cease doing future business with the supplier. Failure to sign the COA shall not relieve a supplier from the requirements of this Manual.

### 3. SUPPLIER RESPONSIBILITIES

On an annual basis, the RSM will be updated by New Balance. Updates typically will occur in January and are effective after March 31st. It is the responsibility of the supplier to review and comply with all updates to the RSM.

The supplier shall also allow or, as the case may be, obtain permission for an authorized representative of NB to inspect, at any time during normal business hours, any premises of the factory, supplier, and/or any subcontractor where any NB product or material or components thereof are developed, manufactured or stored. The authorized representative may request samples of products or materials during such inspection.

Suppliers must ensure all materials, components, and packaging materials used for NB products meet the Restricted Substances List (RSL) requirements. The materials must be tested according to the RSM to ensure compliance.

Suppliers' manufacturing processes must comply with the requirements related to substances banned or limited by NB in production as defined in the Manufacturing Restricted Substances List (see Section 4 under the "New Balance Restricted Substances List"). In cases where banned or restricted substances are found in NB products, the supplier shall be held liable for all loss and damage suffered by NB or its direct and indirect customers. New Balance reserves the right to reject products and materials that may contain or may have come in contact with substances that are banned or restricted.



## 4. POLICY ON UNDUE INFLUENCE

To support our commitment to product integrity, NB has maintained a long standing Product Testing Program. Testing our products helps keep customers safe and maintains NB's reputation as a company consumers can trust. For the testing program to be effective, testing must be conducted at independent laboratories free of *undue influence* over test results. Undue influence takes place when the laboratory or an individual is manipulated, deceived, or coerced to alter or affect test results in violation of product requirements or established testing procedure. Undue influence may be based directly or indirectly on the promise of giving or taking away business.

**Undue influence or any attempted undue influence is against NB's policies and may be a basis for NB terminating a supplier.**

## 5. PRODUCT CHEMISTRY & COMPLIANCE TEAM CONTACTS

CONTACT	REGION	CONTACT EMAIL	RSL GROUP
Gregory Montello	Global	Gregory.Montello@newbalance.com	All Product Groups
Lucy Zeng	Asia	Lucy.Zeng@cn.newblance.com	All Product Groups
Aeolus Liu	Asia	Aeolus.Liu@warrior.com	Warrior Products Only



## IMPLEMENTATION, TESTING & AUDIT REQUIREMENTS

New Balance may request testing be conducted at any manufacturing stage including development, production, and/or finished products. The testing may be part of a routine testing schedule or random selection of samples. In order to accomplish the goal of producing a NB compliant product, NB requires that suppliers will:

- Test the items that NB identifies.
- Test items for further understanding of their production processes, chemistries, and product content.

### 1. TESTING METHODOLOGY

The chart below outlines NB classes of suppliers and the general frequency of testing samples. New Balance requires testing of 30% of all material orders each quarter for all suppliers with previously failed test records regardless of the supplier's status. The key elements of NB's testing methodology include:

- Supplier history and compliance performance.
- Material type: special category materials such as woven, non-woven, knits, suede, or coated materials are tested at a higher rate.
- Material color: high risk material colors include black, red, brown, navy, yellow, orange, beige, green, grey, purple, fluorescents, and metallic colors. High risk material colors are tested at a higher rate.
- Material treatment: treated materials such as those with water repellency, antimicrobials, paints, and prints are tested at higher rates.

SUPPLIER STATUS	SCORECARD	DEFINITION	TESTING SAMPLE
Certified Supplier	≥90	RSL certified supplier with a comprehensive internal RS control system and high management commitment	5% or 4 sets/year
Low Risk Supplier	≥80 or <90	Supplier waiting for NB audits, likely to be improved to a Certified level	5-10% or 1-2 sets/Qtr
Medium Risk Supplier	≥60 or <80	Supplier lacking certain elements for the Low Risk level	10-15% or 2-3 sets/Qtr
High Risk Supplier	<60	Supplier un-willing or incapable to improve on RS management capabilities. Partnership under reevaluation.	30%/Qtr
New Supplier	N/A	Supplier used for the first time in production	30%/Qtr



## 2. RSL APPROVAL TIMEFRAME

All RSL test results expire on the first anniversary of the test completion date. All materials and components are subject to a yearly re-test. For repeat orders, materials will be selected randomly for testing.

## 3. INITIATED ROUTINE TESTING

Routine RSL testing includes quarterly testing for footwear materials and seasonal/yearly for materials and components used in apparel, accessories and equipment. Each quarter and/or season, NB will identify a list of all production quality materials by color and/or finished products that must be tested at its approved RSL testing laboratories. Suppliers shall promptly provide samples of pre-produced, unfinished or finished materials/products requested for testing to the laboratories. Samples should be sent with a completed Test Request Form (Appendix 2) with the required RSL testing package or combination selected. New Balance only accepts test reports conducted to its RSL standards/methods at a laboratory that has been audited and approved by New Balance. All materials used in NB products must be RSL approved. Suppliers will be expected to pay for routine RSL testing.

In the event of an RSL failure, a Corrective Action Request (CAR) form (Appendix 3) must be completed by the supplier. New Balance expects an investigation into the source of the failure. The details of the investigation should be reported on the CAR form and sent to the assigned NB PCT representative for approval. At a minimum, it must contain information on the source of the failure; actions taken to quarantine current inventory and shipped products (if any); action taken to prevent the failure in the future; project manager information; and acknowledgement that these changes will be implemented for all future orders. Please see further instructions outlined on the CAR form. New Balance reserves the rights set forth in the RSM and agreements with the supplier in the event of a failure. The PCT must approve all materials before the specification and design can proceed to the factories for production.

### 3.1 FOOTWEAR MATERIALS RSL TESTING

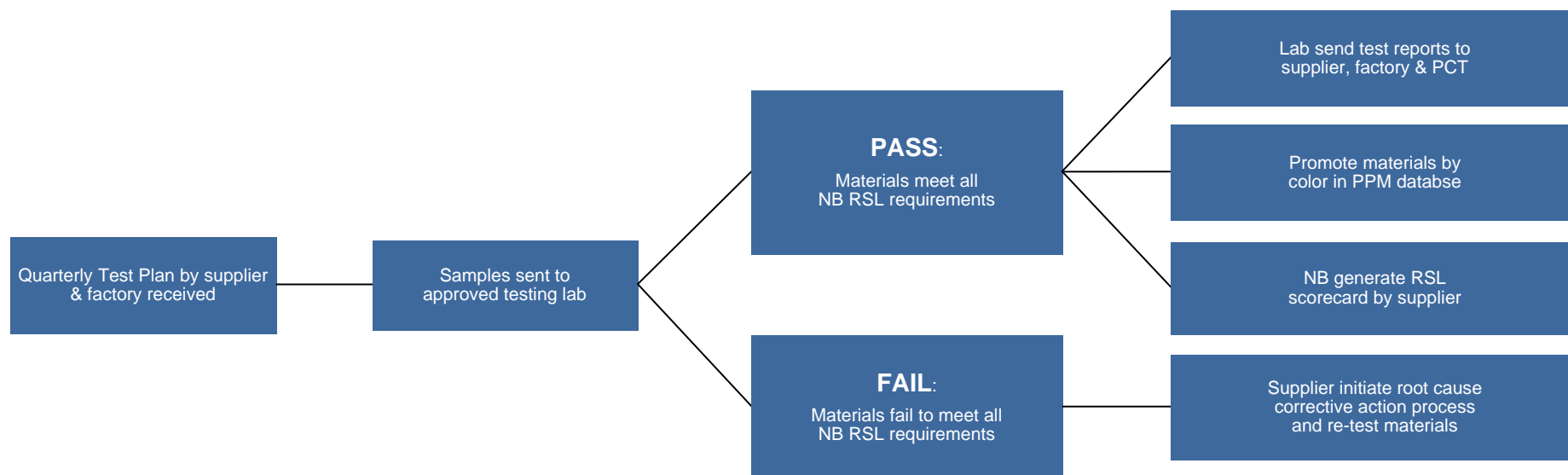
Footwear RSL management is based on a quarterly testing approach. Each quarter, the list of materials by color and factory that will be used in all styles is developed and passed on to the Product Chemistry Team. The PCT reviews the list to approve materials using the NB RSL reason codes for materials that have already been tested and requests RSL testing for those that have not been tested. The PCT will advise suppliers of the number of their materials by color, which needs to be tested for the development quarter. The supplier is responsible for arranging payments for testing at the approved laboratories. The results of the RSL test will be sent to the supplier, the factory, and the Product Chemistry Team. All materials used to manufacture NB footwear must be RSL-approved before they can be used. Testing scorecards are developed quarterly on each supplier based on test results and sent to the factories and development teams. The scorecards are reviewed quarterly. NB reserves the right to cease doing business with suppliers that fail RSL testing.

The soles for all NB footwear must also be manufactured to meet finished product RSL requirements. Sole manufacturers must ensure that heavy metals – including cadmium, lead, mercury, arsenic, and chromium VI – are not introduced into the manufacturing process of soles. No sole unit will be allowed to ship when found to be in violation of the NB RSL requirements. In addition, sole manufacturers must make sure that no substance listed on the MRSL is used in the production of soles for NB footwear.

## RSL MATERIAL APPROVAL REASON CODES

Approval for RSL tested materials is based on reason codes, which determines the type of approval for each material by color. The following reason codes are currently used by the NB PCT for quarterly approval of materials that will be used in production:

- Direct Test (DT): test reports of a test performed to a specific NB MAT # and color.
- Composite Test (CT): tests reports obtained through composite testing of materials of various colors.
- Base Chemical (BC): test report of same base chemical or material e.g. TPU pellet, etc.
- Comparison Test (CP): defined as same chemical & material type of the same material with minor modification (e.g. plain weave to twill or basket weave, rib knit to other knit types).
- Material/Product Certification (CM): certification of a supplier's material/components for RSL compliance. The certification must be easily verifiable and meet all NB RSL requirements to be accepted. Random material testing will be conducted to verify that the supplier is able to continuously produce products that comply with the NB RSL requirements.
- Certified Suppliers (CS): reason code for suppliers certified by the NB PCT.



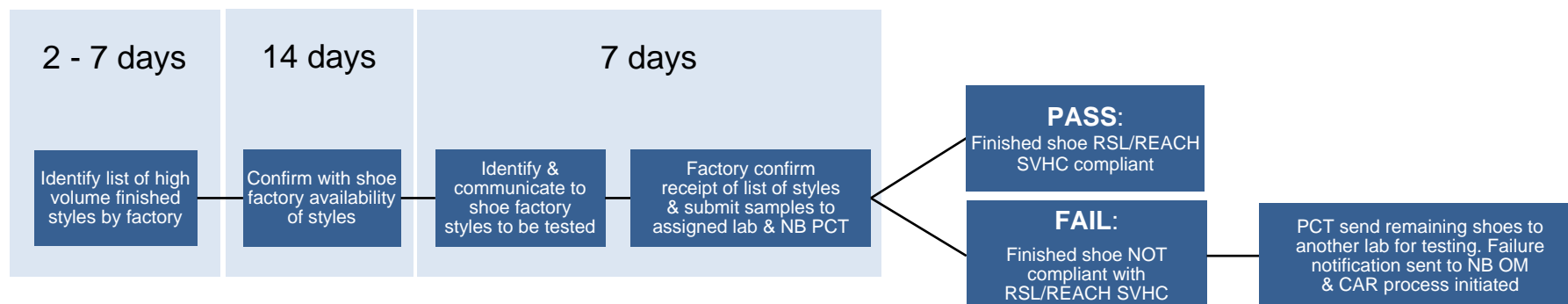
Footwear materials RSL testing flow chart

### 3.2 FINISHED SHOE RSL/REACH SVHC TESTING

New Balance finished shoe RSL/REACH SVHC testing is conducted annually for random verification of RSL compliance of shoes manufactured from NB approved materials, as well as the verification of potential contamination from chemicals or additives used during shoe manufacturing processes like printing and cementing. The factory must ensure that all shoes are RSL compliant before shipment. In case of non-compliance related to RSL issues of finished shoes, the factory that shipped the product shall be held responsible for all expenses to be incurred as a result of the non-compliance. The following tables provide guidance on the sample size requirements and testing priority for finished shoe RSL testing.

TEST CATEGORY	SAMPLES SENT TO ASSIGNED LAB	SAMPLES SENT TO NB PCT
Whole shoe RSL testing	2 pairs of finished shoes for adult style; 3 pairs of finished shoes for kids style	Per style: 1 pair of finished shoe and 1 pair of finished upper
REACH SVHC	1 pair of finished shoes	Per style: 1 pair of finished shoe and 1 pair of finished upper

HIGH RISK	MEDIUM RISK	LOW RISK
Azo dyes, total heavy metals, Cr (VI), formaldehyde, nickel release, phthalates, PVC, AP & APEO	Disperse dyes, organotin compounds, chlorinated phenols, PAHs, DMFu, DMFa, <i>N</i> -nitrosamines, soluble heavy metals	PFCs (high risk for functional shoes), flame retardants (high risk for functional shoes), VOC, styrene, acetophenone and 2-phenyl-2-propanol



*Finished shoe RSL/REACH SVHC testing flow chart*

### 3.3 APPAREL RSL TESTING

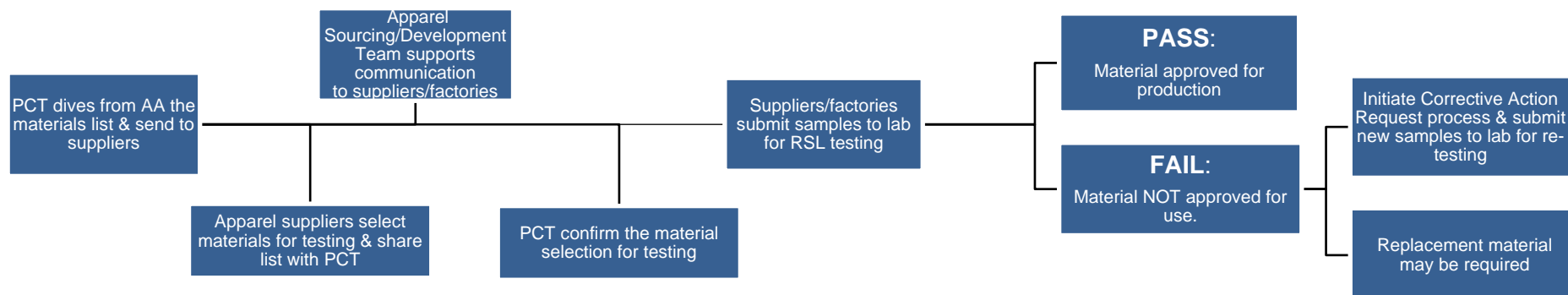
Approved apparel suppliers are responsible for selecting materials for testing, arranging and following up on audits for RSL compliance. The garment factories or suppliers are responsible for providing samples in a timely manner to ensure RSL testing is completed before full production. All follow-up corrective action plans are the responsibility of the supplier. New Balance reserves the right to inspect, at any time during business hours, the premises where NB apparel and/or materials are developed, manufactured or stored.

#### MATERIALS IN APPAREL ACCELERATOR (AA)

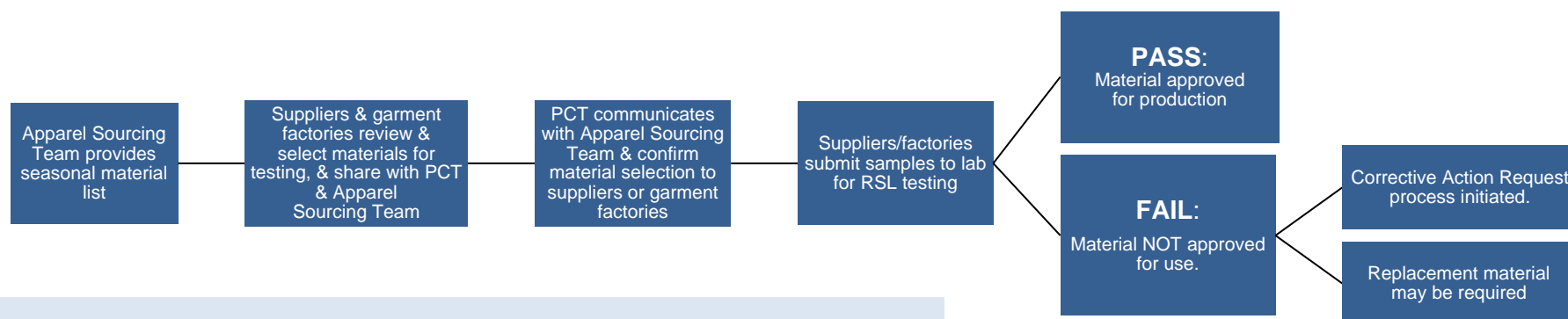
For materials uploaded in NB's AA system, RSL seasonal testing will be conducted according to development calendar to complete RSL testing requirements. Materials selected from the AA system will be chosen based on the supplier RS risk rating and material's RS risk level for RSL testing by approved suppliers and confirmed by NB PCT. Suppliers are responsible for sending the required materials for testing.

#### MATERIALS NOT IN APPAREL ACCELERATOR

For materials not in the AA system, RSL testing will be conducted according to the list of new development material list provided by the NB Apparel Team. Materials are selected for testing based on the supplier/garment factory RS risk rating and material's RS risk level by approved suppliers or garment factories (for own sourced materials) and confirmed by NB PCT. The Apparel Team will coordinate for the testing arrangement with garment factories and/or suppliers.



Apparel RSL testing process for materials in AA flow chart



NOTE: Seasonal material list includes all materials, components, printings, etc. which will be used for that season that are not in AA

Apparel RSL testing process for materials not in AA flow chart

## APPAREL SUPPLIERS RISK RATING CRITERIA

Restricted substances risk rating for apparel material suppliers including garment factories is based on testing records kept by the PCT since 2010 and updated with new testing data. Suppliers are rated as being Low, Medium and High Risk, each with a minimum frequency of RS testing. Apparel suppliers/garment factories should follow the minimum testing frequency below if their materials are not priority materials in the seasonal material list.

RISK RATING	CRITERIA	MINIMUM RS TESTING FREQUENCY
Low Risk Apparel Supplier	Have at least 20 RS test records; no RS failure within two years; and have RS test record within the last two years	5% -10% or minimum one group per year
Medium Risk Apparel Supplier	Have more than five and less than 20 RS test records; no RS failure within one year; have RS test record within the last two years; new supplier/re-active supplier within one year; and factories' own sources with no RS test record	20%-30% or minimum one group per season test
High Risk Apparel Supplier	Have had RS failure within the past year or have outstanding RS failure which has not been corrected.	40% - 50% or at least two groups per season test

### NOTE:

- One group test can be one direct test or one composite test for two or three similar materials in different color ways.
- Supplier/factory RS risk level will be evaluated and updated after seasonal RSL testing.
- NB's RSL test reports are valid for one year. All apparel materials and components are subject to a yearly re-test.

## PRIORITY APPAREL MATERIALS AND COMPONENTS FOR TESTING

Apparel materials and components with the following characteristics should be treated as priority materials/components for RSL testing:

- New supplier's material;
- New material (new composition/technology/treatment);
- High risk color (like black, grey, brown, navy, purple, red, yellow, orange, green, metallic color, fluorescent color, glow in dark, etc.);
- Additional treatment without testing record within the past year (chemical treatment: wicking, non-wicking, water proof, anti-microbial, paints, prints, etc.);
- Supplier has a RS failure within the past year or has an outstanding RS failure which have not been corrected; and
- Same composition material without passed RS record within one year.



## GARMENT FACTORY'S OWN MATERIAL SOURCES

Materials not from NB approved suppliers but from garment factory's own sources shall also comply with NB's RSL requirements. The NB PCT should be notified about the material list and garment factory should select the materials for RS testing based on supplier/garment factory's RS risk rating and material's RS risk level. Garment factories are responsible to monitor and ensure all the materials used can fulfill NB's requirements, send materials selected for testing according to NB's requirements, and follow up in the event of non-compliance.

### 3.4 EQUIPMENT RSL TESTING

Suppliers in this product category are responsible for arranging and following up on audits for RSL compliance. All follow-up corrective action plans are the responsibility of the suppliers. New Balance reserves the right to inspect, at any time during business hours, the premises where NB equipment and/or materials are developed, manufactured or stored.

#### EQUIPMENT RSL TESTING FOR APPROVED MATERIAL SOURCES

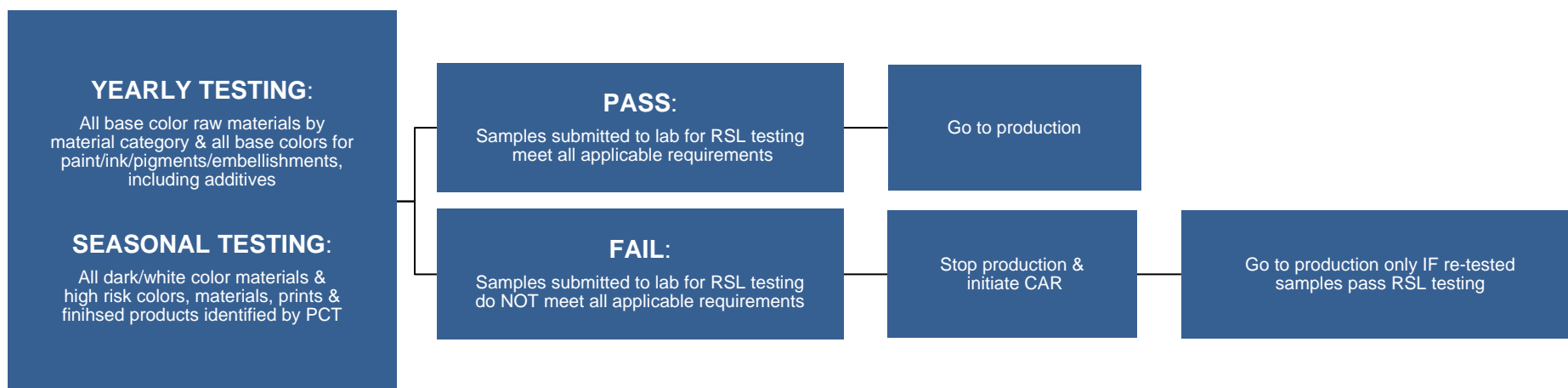
**Yearly testing** will begin April 1st and suppliers will have until the end of May to complete the base color testing requirements. Base colors are those from which other colors used in the manufacturing process are derived. All additives used must be RSL compliant. New Balance reserves the right to conduct random audits during production. Materials that do not meet the RSL requirements during these audits will not be allowed to ship. New Balance will be responsible for payments for these audits except where it is necessitated by a corrective action.

**Seasonal testing** include testing for materials described as dark and white. In addition, the PCT will review the color palette and determine high risk colors that will need testing for both prints and finished products. The suppliers are responsible for providing samples in a timely manner to ensure testing is complete before full production. New Balance reserves the right to conduct random audits during production. Materials that do not meet the RSL requirements during these audits will not be allowed to ship. New Balance will be responsible for payments for these audits except where it is necessitated by a corrective action.

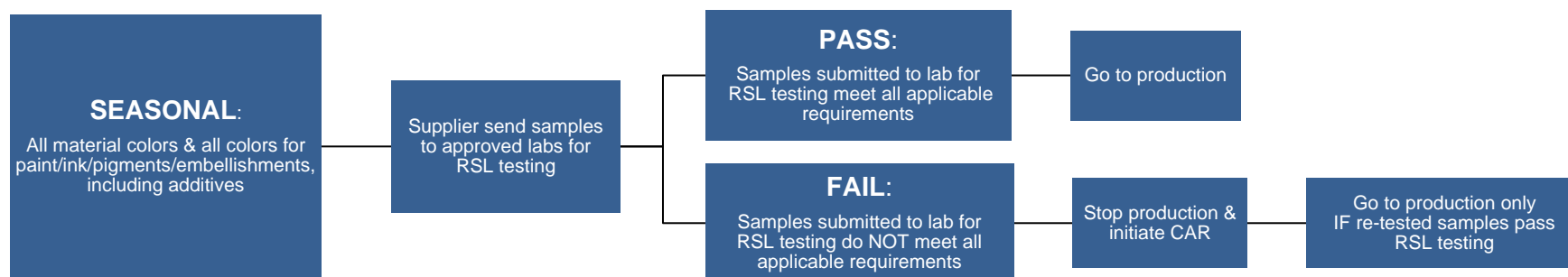
#### EQUIPMENT RSL TESTING FOR OTHER MATERIAL SOURCES

Equipment RSL testing process for other materials sources applies to suppliers yet to be audited and approved for RSL compliance. All materials from suppliers classified for RSL as "other sources" will need to be tested for RSL compliance in all colorways. Testing must be completed at an approved NB laboratory and to NB standards before full production. New Balance reserves the right to conduct random audits during production. Materials that do not meet the RSL requirements during these audits will not be allowed to ship. New Balance will be responsible for payments for these audits except where it is necessitated by a corrective action.





Equipment RSL testing process for approved material sources flow chart



Equipment RSL testing process for other material sources flow chart

## 4. RANDOM TESTING

New Balance reserves the right to randomly select and test products at any stage of production. The purpose is to verify the consistency of RSL compliance of production materials and ensure the CAR improvements have been well executed by the supplier on those materials with previous RSL test failures. Production material samples will be selected for testing based on the following criteria:

- Material that is being used in production in all NB manufacturing locations.
- Material with previous RSL test failures and with customer complaints.
- Material defined as high risk.

New Balance will pay for this testing which is an addition to the routine quarterly and/or seasonal testing. Any failures will be discussed with suppliers in an attempt to discover and correct the cause using the CAR form. In the case of a failure, this test result will supersede any previous test results related to the same material and/or color. The supplier will be responsible to pay for any material that fails the RSL random testing, costs associated with any product recalls, quarantine of failed materials, and logistics of collecting and returning failed products. New Balance reserves its other rights set forth in the RSM and agreements with the supplier in the event of a failure.

## 5. SUPPLIER INITIATED TESTING

Suppliers are encouraged to conduct internal tests to better understand their processes and assure conformity with the RSM. Suppliers are encouraged to use the RSL Test Request Form (see Appendix 2) provided for any supplier initiated testing.

## 6. TESTING FAILURE NOTIFICATION PROCESS

A failed test report will initiate the NB Testing Failure Notification Process.

**Material quarterly/seasonal RS testing failure** initiates the CAR. The supplier, Production Development Specialist (PDS), Production Development Lead (PDL), and NB Factory Operations Manager (OM) are notified of the failure and the current CAR status.

**Production material, finished product RS or CPSIA testing failure** initiates further investigation of the factory and the 3<sup>rd</sup> party laboratory via correlation testing. Positive correlation testing will validate the RS testing result. Negative correlation testing will initiate the CAR process.

**Corrective action requests (CAR)** are designed to assist suppliers in determining the root cause of testing failures. The outcome of a supplier's CAR process will ultimately determine if NB will approve a previously failed material. If it is determined that NB cannot approve the material, failure notifications are sent to the PDS, PDL, and OM.

## APPROVED LABORATORIES

Ensuring that only high quality and safe products are produced, NB relies on the quality and authenticity of testing data from approved laboratories that have been audited and approved by New Balance. New Balance product groups are assigned to specific laboratories and locations for RSL testing as described below.

PRODUCT GROUP	LABORATORY
Footwear	Bureau Veritas (BV)
Apparel & Accessories	BV & SGS
Equipment	BV & SGS
Other Categories	BV

### 1. LABORATORY APPROVAL PROCESS

The NB laboratory approval process for new laboratories is a three-step program designed to ensure that NB products are tested by laboratories capable of generating consistent and accurate testing data. The process is as follows:

- A. **Pre-audit preparation:** the pre-audit preparation requires the laboratory to complete various forms confirming the appropriate accreditations and competences.
- B. **On-site laboratory evaluation (lab audit):** the on-site laboratory evaluation includes a tour of the facilities, document review, process demonstration, sample verification, and personnel evaluations.
- C. **NB final evaluation:** the final step of the approval process is the evaluation of all materials and results collected during the pre-audit and laboratory evaluation. The laboratory is notified of all findings during the evaluation.

## 2. APPROVED LABORATORY LOCATIONS

The table below identifies the laboratories and locations that have been approved for RSL testing. The list is subject to change without notice. Please check with your designated NB PCT contact for changes to approved laboratories and locations.

APPROVED LABORATORIES				
Name	Location	Country	POC	Contact Information
<b>Bureau Veritas</b>				
Bureau Veritas Consumer Products Services (Guangzhou) Co., Ltd	Block B, Mei Lin Plaza, No. 183 Shi Nan Road, Dong Chong, Panyu, Guangzhou, Guangdong, China	China	Emma Li	T: (86) 20 22902088 Ext 177 F: (86) 20 34909303 E: <a href="mailto:emma.li@cn.bureauveritas.com">emma.li@cn.bureauveritas.com</a>
Bureau Veritas Consumer Products Services (Shanghai)	1/F, #5 Building, No.168 Guangzhou Road, Zhuangqiao Town, Minhang, Shanghai China 201108	China	Fred Wu	T: (86) 21 2408 1744 F: (86) 21 6489 0042 E: <a href="mailto:fred.wu@cn.bureauveritas.com">fred.wu@cn.bureauveritas.com</a>
Bureau Veritas Consumer Products Services Germany	Wilhelm – Hennemann - Str. 8 D-19061 Schwerin	Germany	Silke Schmidt	T: (49) 40 74041 1333 F: (49) 40 74041 1499 E: <a href="mailto:Silke.Schmidt@de.bureauveritas.com">Silke.Schmidt@de.bureauveritas.com</a>
Bureau Veritas Hong Kong Limited	3/F, Pacific Trade Centre 2 Kai Hing Road, Kowloon Bay, Kowloon	Hong Kong	Kiki Hsiung	T: (852) 2331 0523 F: (852) 2331 0889 E: <a href="mailto:nb.bvcpsequiry.hk@hk.bureauveritas.com">nb.bvcpsequiry.hk@hk.bureauveritas.com</a> ; <a href="mailto:kiki.hsiung@hk.bureauveritas.com">kiki.hsiung@hk.bureauveritas.com</a>
Bureau Veritas Consumer Products Services (India) Pvt. Ltd,	AKR Tech Park, Ground floor, C Block, Survey no 112, Krishna Reddy Ind. Area, 7th Mile Hosur Road, Bangalore – 560068	India	Jagadish VP	T: (91) 80 40701672 F: (91) 80 40701654 E: <a href="mailto:jagadish.vp@in.bureauveritas.com">jagadish.vp@in.bureauveritas.com</a>
Bureau Veritas Consumer Products Services (India) Pvt. Ltd	79/51 MRD Complex, Nesavalur Colony, P.N.Road, Opp.Bharath Petroleum Bunk Tirupur - 641 602	India	N.Kanagaraj	T: (91) 421- 4308 105 F: (91) 421- 4308 106 E: <a href="mailto:kanagaraj.n@in.bureauveritas.com">kanagaraj.n@in.bureauveritas.com</a>
Bureau Veritas Consumer Products Services (India) Pvt. Ltd	C-19, Sector-7, Noida-201301, Uttar Pradesh	India	Akhilesh Kumar	T: (91) 9650052153 F: (91) 120 2424 880 E: <a href="mailto:akhilesh.kumar@in.bureauveritas.com">akhilesh.kumar@in.bureauveritas.com</a>
Bureau Veritas Consumer Products Services (Pte) Ltd., Singapore Branch	37A Tampines Street 92 #06-01 Singapore 528886	Singapore	Er Huey Sin	T: (65) 6671 0187 F: (65) 6283 8966 E: <a href="mailto:huey-sin.er@sg.bureauveritas.com">huey-sin.er@sg.bureauveritas.com</a>
Bureau Veritas Consumer Products Services (H.K.) Ltd., Taiwan Branch	No.37, Zhongyang S. Rd., Sec. 2, Beitou, Taipei 112, Taiwan	Taiwan	Alain Lai	T: +886-28905-3666 ext. 241 F: +886-2-2895-1958 E: <a href="mailto:alain.lai@tw.bureauveritas.com">alain.lai@tw.bureauveritas.com</a>
Bureau Veritas Consumer Products Services, Inc, USA	100 Northpointe Parkway Buffalo, New York 14228, USA	USA	Terry Bennet	T: (716) 505-3661 F: (716) 505 3301 E: <a href="mailto:terry.bennet@us.bureauveritas.com">terry.bennet@us.bureauveritas.com</a>
Bureau Veritas Consumer Products Services Vietnam Ltd	Lot C7-C9, Conurbation 2, Cat Lai II IZ, District 2, HCMC, Vietnam	Vietnam	Rose Vo Navy Tran	T: (84) 28 3742 1604 ext. 638 F: (84) 8-37421603 E: <a href="mailto:rose.vo@vn.bureauveritas.com">rose.vo@vn.bureauveritas.com</a> ; <a href="mailto:navy.tran@vn.bureauveritas.com">navy.tran@vn.bureauveritas.com</a>

## APPROVED LABORATORIES

Name	Location	Country	POC	Contact Information
PT. Bureau Veritas Consumer Products Services Indonesia	Gedung KKM Lt. 2-3, Jl. Cideng Timur No. 38, Jakarta Pusat 10130	Indonesia	Menik Gunandari Arif Pamungkas	T: (62) 21 6348877 ext. 185 F: (62) 21 634 8838 E: <a href="mailto:menik.gunandari@id.bureauveritas.com">menik.gunandari@id.bureauveritas.com</a> ; <a href="mailto:arif.pamungkas@id.bureauveritas.com">arif.pamungkas@id.bureauveritas.com</a>
Bureau Veritas Korea Ltd.	8F, O-Biz Tower, Beolmal-ro 126, Dongan-gu, Anyang-si, Gyeonggi-do, 14057, Korea	Korea	Chad Jeon	T: (82) 2 3451 0936 F: (82) 2 3451 0999 E: <a href="mailto:chad.jeon@kr.bureauveritas.com">chad.jeon@kr.bureauveritas.com</a>
Bureau Veritas Consumer Products Services Lanka Pvt Ltd (For Apparel)	No 570, Galle Road, Katubedda Sri Lanka, Western Sri Lanka 10400	Sri Lanka	Oshari Mihirini	T: (94) 112 350 111 F: (94) 262 2198/99 E: <a href="mailto:mihirini.oshari@lk.bureauveritas.com">mihirini.oshari@lk.bureauveritas.com</a>
<b>SGS</b>				
SGS Guangzhou	198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Techonology Development District, Guangzhou, Guangdong, China, 510663	China	Tina Chan	T: (86) 20 3213 6111 F : (86) 20 8207 5169 E : <a href="mailto:Tina.chan@sgs.com">Tina.chan@sgs.com</a>
SGS Shanghai	4 <sup>th</sup> Floor, Building 4, No. 889 Yishan Road, Xuhui District, Shanghai 200233, China	China	Sunny Yan	T: (86) 21 6107 8394 F: (86) 21 6495 8763 E: <a href="mailto:sunny.yan@sgs.com">sunny.yan@sgs.com</a>
SGS Hong Kong	4/F On Wui Centre, 25 Lok Yip Road, Fanling, N.T., Hong Kong, China	Hong Kong	Sarah Wang	T : (852) 2204 8348 F : (852) 2334 8752 E : <a href="mailto:sarah-sh.wang@sgs.com">sarah-sh.wang@sgs.com</a>
SGS India	28 B/1 (SP), 28 B/2 (SP), Second Main Road, Ambattur Industrial Estate, Chennai – 600058.	India	Balla Suresh Kumar	T: +91 98408 30472 F: +91 44 66081650 E : <a href="mailto:balla.sureshkumar@sgs.com">balla.sureshkumar@sgs.com</a>
SGS Korea	322, Tho O Valley, 76, LS-ro Hogle-dong, Dongan-gu Anyang, Gyeonggi, Korea, 14117	Korea	Kyeonghye Kim	T: (82) (0)31 460 8055 F: (82) (0)70 4332 1678 E: <a href="mailto:kyeonghye.kim@sgs.com">kyeonghye.kim@sgs.com</a>
SGS Philippine (CPSIA Only)	2 <sup>nd</sup> Floor Algeria Building, 2229 Chino Roces Avenue, 1231 Makati City, Philippines	Philippines	Jocelyn Babaa; Meden Peneyra	T: (632) 784 9400 Ext: 601/816 F: (632) 818 2971 E: <a href="mailto:jocelyn.babaa@sgs.com">jocelyn.babaa@sgs.com</a> ; <a href="mailto:meden.peneyra@sgs.com">meden.peneyra@sgs.com</a>
SGS Taiwan – Kaohsiung (Footwear)	No. 61, Kai-Fa Rd, Nanzih Export Processing Zone, Kaohsiung, Taiwan 81170	Taiwan	Wes Chen	T: (886) 7301 2121 ext: 4103 F: (886) 7301 0867 E: <a href="mailto:wes.chen@sgs.com">wes.chen@sgs.com</a>
SGS Taiwan – Taipei (Apparel)	31, Wu Chyuan Road, New Taipei Industrial Park, New Taipei City, Taiwan 24886	Taiwan	Tina Chou	T: (886) 2 2299 3279 # 5209 F: (886) 2 2298 4060 E: <a href="mailto:tina.chou@sgs.com">tina.chou@sgs.com</a>
SGS Turkey	İş İstanbul Plaza Bağlar Mah. Osmanpaşa Cad. No:95 E Girişi, Güneşli 34209 İstanbul, Turkey	Turkey	Neslihan Erol ; Gönül Umut	T: (90-212) 368 4000 F: (90-212) 296 4782 E: <a href="mailto:neslihan.erol@sgs.com">neslihan.erol@sgs.com</a> ; <a href="mailto:gonul.umut@sgs.com">gonul.umut@sgs.com</a>



## APPROVED LABORATORIES

Name	Location	Country	POC	Contact Information
SGS U.S.A	291 Fairfield Avenue Fairfield, New Jersey 07004 USA	USA	Debra Chronicle	T: (508) 431 8000 F: (973) 5757175 E: <a href="mailto:debra.chronicle@sgs.com">debra.chronicle@sgs.com</a>
SGS Vietnam	Lot III/21, 19/5A Street, Industrial Group III, Tan Binh Industrial Zone, Tay Thanh Ward, Tan Phu District, Ho Chi Minh City, Vietnam	Vietnam	Ngan Thai	T: (84-8) 3816 0999 F: (84-8) 3816 0996 E: <a href="mailto:ngan.thai@sgs.com">ngan.thai@sgs.com</a>
PT. SGS Multi-Lab Indonesia (And FW CPSIA testing)	Jl. Cilandak KKO (Commercial Estate) No. 108-C, South Jakarta	Indonesia	Heny Nurhayanti ; Lisma Fikriyani	T: (62) 21 781 8111 ext 720 F: (62) 21 780 7919 E: <a href="mailto:heny.nurhayanti@sgs.com">heny.nurhayanti@sgs.com</a> ; <a href="mailto:lisma.fikriyani@sgs.com">lisma.fikriyani@sgs.com</a>
SGS Japan (Office)	YBP East Square 12F134 Godo-cho, Hodogaya-ku, Yokohama, 240-0005, Japan	Japan	MasahiroTaguchi Hidaka Sekiyama	T : +81.45.330.5040 F : +81.45.330.1109 E : <a href="mailto:masahiro.taguchi@sgs.com">masahiro.taguchi@sgs.com</a> E : <a href="mailto:hidaka.sekiyama@sgs.com">hidaka.sekiyama@sgs.com</a>

### 3. LABORATORY RESPONSIBILITIES

The expected responsibilities of NB approved laboratories include:

- A. Training all technicians on the requirements and limits of the current RSM.
- B. Ensuring test reports are consistent and conform to the NB test reporting format. Test reports that are not consistent and do not conform to the NB test reporting format are considered invalid. At a minimum NB test reports should contain the following:
  - Digital photographs of materials/components or products submitted for testing;
  - Summary of tests performed with results by component tested;
  - NB material number and style number for each NB specified material (if available); and
  - Product category and description.
- C. Use of the following test evaluations on reports:
  - PASS: meets all NB RSL test requirements for the required product category tests.
  - FAIL: does not meet some or all of NB RSL test requirements for the required product category tests.
  - ADULT ONLY: failed children's limits for RSL test but passed all other limits.
- D. Entering test reports into the NB RSL C-Insight database. A PDF format of the test report should be emailed to the:
  - NB report channel (NB PCT email distribution list);
  - Applicant; and
  - Relevant factory (if applicable).
- E. Sending hard copies of all test reports and invoices to the applicant only.
- F. Following all agreed upon pricing between NB and approved testing laboratories.

## 4. ANNUAL AUDIT PROGRAM FOR APPROVED LABORATORIES

The Annual Audit Program for NB approved laboratories is performed to focus on the laboratory's continued compliance with NB requirements and continued improvement on testing capabilities.

By following the specified protocol, the audit starts with a pre-audit meeting between the NB auditor and laboratory staff in which the auditor discusses the purpose of the audit, the audit schedule, the inspection areas, and the procedures that will be followed. The pre-audit meeting may include a brief tour of the laboratory prior to conducting the actual audit. The audit findings are assembled by the NB auditor at the conclusion of the audit. These findings shall be discussed with the laboratory staff in a post-audit meeting. A written audit report will be sent to the laboratory within a specified time. The laboratory will be required to respond to the deficiencies in the audit report, if any. The need for follow-up action will be determined based on the laboratory's responses.

## 5. CORRELATION TEST FOR 3<sup>RD</sup> PARTY TESTING LABORATORIES

Correlation test will be conducted at least once every year by the NB PCT to evaluate and verify the accuracy, consistency and reliability of testing performed by NB approved laboratories. The steps of the correlation testing are as follows:

- NB approved laboratories and other 3<sup>rd</sup> party testing laboratories are selected for correlation testing.
- Samples with failed data will be selected by NB PCT and sent to approved laboratories.
- Approved laboratories shall perform the test with NB required test methods.
- Result will be analyzed with Z-value statistical methods and then evaluated with performance rate.

<b>Good</b>	-1 < Z-score < 1
<b>Satisfactory</b>	-2 < Z-score < -1 or 1 < Z-score < 2
<b>Questionable</b>	-3 < Z-score < -2 or 2 < Z-score < 3
<b>Unsatisfactory</b>	Z-score < -3 or 3 < Z-score

- Approved laboratories shall perform a CAR on the tests that result in a rating of "Questionable" or "Unsatisfactory" and complete the improvement within 3 months.
- A laboratory with the rating of "Unsatisfactory" will be temporarily suspended from performing testing on NB products until NB approves the CAR.
- A laboratory will be disapproved if the CAR leads to future failures or an on-site audit failure (if necessary).



## RESTRICTED SUBSTANCES LISTS

The Restricted Substances List (RSL) requirements reflect regulations and legislations throughout the world. Because of NB's worldwide footprint, all products must comply with the applicable RSL requirements. The following are some commonly used RSL terms and their definitions:

- **Chemical Abstract Service # (CAS#):** a unique numeric identifier designated to one substance by the CAS registry.
- **Restricted Substance:** substance being limited/restricted for use.
- **NB Maximum Limit:** maximum allowable limit of the substance allowed in the finished products/components.
- **Laboratory Method Detect Limit (MDL):** lowest concentration of the substance the laboratory can detect during testing.
- **Test Method:** NB approved test method.
- **Manufacturing:** applies to the factories manufacturing finished products; e.g. footwear, apparel, equipment and accessories.

Suppliers must refer to the RSL tables to ensure that their materials and/or products are in compliance with the NB Maximum Limits for the restricted substances listed.

The asterisk sign (\*) before the name of a chemical group in the RSL table below indicates that an AFIRM chemical information sheet is available; simply click on the name of the chemical group in the electronic version of this document and your web browser will load a PDF of the chemical information sheet for that particular chemical group. The chemical information sheets were created by the AFIRM Group as education materials to advise suppliers about best practices for chemical management. Each chemical information sheet provides an overview of the chemical group, where they are likely to be found in material(s) and manufacturing processes, and how to ensure compliance with RSL requirements. The complete library of the AFIRM chemical information sheets is available on the AFIRM Group's website at [afirm-group.com](http://afirm-group.com).



## 1. FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

The NB Finished Product RSL applies to all NB products, components, materials and manufacturing processes. Products include footwear, apparel, equipment, and accessories. These RSL requirements reflect the most restrictive worldwide regulations. New Balance may, at various times, allow products to be sold in countries where these most restrictive standards are not met but are within the legal limits of that particular country.

FINISHED PRODUCT RESTRICTED SUBSTANCES LIST						
CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
* <u>Acetophenone &amp; 2-Phenyl-2-Propanol</u>						
98-86-2	Acetophenone	50 mg/kg each		Industry Guidelines/Best Practice	Extraction in acetone or methanol GC/MS, sonication for 30 minutes at 60 degrees C.	10 mg/kg
617-94-7	2-Phenyl-2-Propanol					
* <u>Alkylphenol &amp; Alkylphenol Ethoxylates (AP &amp; APEOs) - limits listed are for both AP &amp; APEOs</u>						
Various	NP (Nonylphenol)	AP: 100 mg/kg APEO: 100 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII; Korea Regulations	Textile: EN ISO 18254-1: 2016 with determination of AP using LC/MS or GC/MS. Leather: EN ISO 18218-1:2015. Others: Extraction: 1 g sample/20 mL THF, sonication for 60 minutes at 70°C; Analysis: EN ISO 18857-2: 2011	AP: 10 mg/kg; APEO: 30 mg/kg
Various	OP (Octylphenol)					
Various	OPEO (Octylphenol ethoxylates)					
Various	NPEO (Nonylphenols ethoxylates)					
Asbestos						
Various	See Appendix 4 for complete list	Prohibited		EU REACH Regulation (EC) No 1907/2006 Annex XVII	Microscopic examination; minimum magnification 1-250, polarized light filter attached; ratio of fiber length to diameter is at least 3:1.	1 % for each
* <u>Bisphenol A</u>						
80-05-7	Bisphenol A (Food contact items including water bottles)	Not detected (1 mg/kg) Banned from use as a monomer in the production of items that come into contact with food		EU Regulations; US States Legislations	Sample preparation: Extraction: 1 g sample/20 ml methanol, sonication for 60 minutes at 70 degrees C. Measurement: DIN EN ISO 18857-2 (mod).	1 mg/kg

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
* <u>Chlorinated Phenols</u>						
25167-83-3	Tetrachlorophenol (TeCP)	Sum of all isomers: 0.5 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII; German Hazardous Substances Ordinance; Germany LFGB; Korea Regulations; The National Standards of China; Oeko-Tex Standard 100	KOH extraction, 12–15 hours at 90 degrees C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070:2015.	0.05 mg/kg
87-86-5	Pentachlorophenol (PCP)	0.5 mg/kg				
Various	Mono-, di-, and tri- chlorophenols	Sum of all isomers: 0.5 mg/kg				
* <u>Chlororganic Carriers</u>						
Various	See Appendix 4 for a complete list	Sum: 1 mg/kg 1,2-Dichlorobenzene: 10 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII; Oeko-Tex Standard 100	DIN 54232:2010	0.1 mg/kg
* <u>Chromium (VI)</u>						
18540-29-9	Chromium (VI)	3 mg/kg Request Aging Test (80oC*24h, <5%rH) for results between 0.5-3 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII German BGVO; Korea Regulations	EN ISO 17075-1:2017	0.5 mg/kg
* <u>Dimethyl Formamide (DMFa)</u>						
68-12-2	Dimethyl Formamide (DMFa)	1000 mg/kg		EU REACH Regulation (EC) No 1907/2006	DIN CEN ISO/TS 16189:2013	5 mg/kg
* <u>Dimethyl Fumarate (DMFu)</u>						
624-49-7	Dimethyl Fumarate (DMFu)	Prohibited		EU REACH Regulation (EC) No 1907/2006; Korea Regulations	CEN ISO/TS 16186:2012	0.1 mg/kg
<u>Dioxins &amp; Furans</u>						
Various	See Appendix 4 for a complete list	Sum of Group 1: 1 µg/kg Sum of Groups 1 & 2: 5 µg/kg Sum of Groups 1, 2 & 3: 100 µg/kg Sum of Group 4: 1 µg/kg Sum of Groups 4 & 5: 5 µg/kg		German ChemVerbots	US EPA 8290	0.1 µg/kg per item listed for each Dioxin and Furan

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
* <b>Dyes - Azo</b>						
101-14-4	4,4'-methylene-bis-(2-chloro-aniline)	20 mg/kg for each amine		EU REACH Regulation (EC) No 1907/2006 Annex XVII; German BGVO; Korea Regulations; Taiwan Regulations; The National Standards of China; Indonesia Regulation No. 07/M-IND/PER/2/2014; Japan Act on Control of Household Products Containing Harmful Substances	<u>Textile:</u> EN ISO 14362-1:2017 <u>Leather:</u> EN ISO 17234-1:2015.  <i>4-Amino-azobenzene Confirmation:</i> <u>Textile:</u> EN ISO 14362-3:2017 <u>Leather:</u> EN ISO 17234-2:2011.	5 mg/kg
101-77-9	4,4'-methylenedianiline					
101-80-4	4,4'-oxydianiline					
106-47-8	4-chloroaniline					
119-90-4	3,3'-dimethoxylbenzidine					
119-93-7	3,3'-dimethylbenzidine					
120-71-8	6-methoxy-m-toluidine					
137-17-7	2,4,5-trimethylaniline					
139-65-1	4,4'-thiodianiline					
60-09-3	4-aminoazobenzene					
615-05-4	4-methoxy-m-phenylenediamine					
62-53-3	Aniline <b>(information only)</b>					
838-88-0	4,4'-methylenedi-o-toluidine					
87-62-7	2,6-Xylidine					
90-04-0	o-anisidine					
91-59-8	2-naphthylamine					
91-94-1	3,3'-dichlorobenzidine					
92-67-1	4-Aminodiphenyl					
92-87-5	Benzidine					
95-53-4	o-toluidine					
95-68-1	2,4-Xylidine					
95-69-2	4-chloro-o-toluidine					
95-80-7	4-methyl-m-phenylenediamine					
97-56-3	o-aminoazotoluene					
99-55-8	5-nitro-o-toluidine					
* <b>Dyes - Blue Colorant</b>						
118685-33-9	Component 1: C <sub>39</sub> H <sub>23</sub> ClCrN <sub>7</sub> O <sub>12</sub> S·2Na	Prohibited		EU REACH Regulation (EC) No 1907/2006 Annex XVII	DIN 54231:2005	10 mg/kg
Not allocated	Component 2: C <sub>46</sub> H <sub>30</sub> CrN <sub>10</sub> O <sub>20</sub> S <sub>2</sub> ·3Na					

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
<b>* Dyes - Carcinogenic</b>						
12656-85-8	C.I. Pigment Red 104	50 mg/kg each		Oeko-Tex Standard 100	DIN 54231:2005/ Total digestion, analysis by ICP-OES or ICP-MS.	15 mg/kg
1344-37-2	C.I. Pigment Yellow 34					
1937-37-7	C.I. Direct Black 38					
2437-29-8 / 569-64-2 / 10309-95-2	C.I. Basic Green 4					
2580-56-5	C.I. Basic Blue 26 (with $\geq 0.1\%$ Michler's ketone or base)					
2602-46-2	C.I. Direct Blue 6					
3761-53-3	C.I. Acid red 26					
548-62-9	C.I. Basic Violet 3 (with $\geq 0.1\%$ Michler's ketone or base)					
569-61-9	C.I. Basic Red 9					
573-58-0	C.I. Direct Red 28					
632-99-5	C.I. Basic Violet 14					
82-28-0	C.I. Disperse Orange 11					
16071-86-6	C.I. Direct Brown 95 ( <i>information only</i> )					
60-11-7	4-Dimethylaminoazobenzene (Solvent Yellow 2) ( <i>information only</i> )					
6786-83-0	C.I. Solvent Blue 4 ( <i>information only</i> )					
561-41-1	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol ( <i>information only</i> )					

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
<b>* Dyes - Disperse</b>						
119-15-3	Disperse Yellow 1	Not detected (15 mg/kg)		German LFGB; Korea Regulations	DIN 54231:2005	15 mg/kg
12222-97-8/ 69766-79-6	Disperse Blue 102					
12223-01-7/ 68516-81-4	Disperse Blue 106					
12236-29-2	Disperse Yellow 39					
13301-61-6	Disperse Orange 37/59/76					
23355-64-8	Disperse Brown 1					
2475-45-8	Disperse Blue 1					
2475-46-9	Disperse Blue 3					
2581-69-3	Disperse Orange 1					
2832-40-8	Disperse Yellow 3					
2872-48-2	Disperse Red 11					
2872-52-8	Disperse Red 1					
3179-89-3	Disperse Red 17					
3179-90-6	Disperse Blue 7					
3860-63-7	Disperse Blue 26					
54824-37-2	Disperse Yellow 49					
12222-75-2	Disperse Blue 35					
61951-51-7	Disperse Blue 124					
6250-23-3	Disperse Yellow 23					
6373-73-5	Disperse Yellow 9					
730-40-5	Disperse Orange 3					
85136-74-9	Disperse Orange 149					
61968-47-6	Disperse Red 151 ( <i>information only</i> )					
6300-37-4	Disperse Yellow 7 ( <i>information only</i> )					
54077-16-6	Disperse Yellow 56 ( <i>information only</i> )					

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
<b>* Flame Retardants</b>						
115-96-8	Tris(2-chloroethyl)phosphate (TCEP)	Not detected (5 mg/kg)		EU REACH Regulation (EC) No 1907/2006 Annex XVII; EU EC (No.) 850/2004; German BGVO; US State Legislations; Japanese Law; Korea Regulations	EN ISO 17881-2:2016	5 mg/kg
126-72-7	Tris-(2,3,-dibromopropyl)-phosphate (TRIS)	Not detected (5 mg/kg)			EN ISO 17881-2:2016	5 mg/kg
25155-23-1	Trixylyl phosphate (TXP)	Not detected (5 mg/kg)			EN ISO 17881-2:2016	5 mg/kg
3296-90-0	2,2-bis(bromomethyl)-1,3-propanediol (BBMP)	Not detected (5 mg/kg)			EN ISO 17881-1:2016	5 mg/kg
5412-25-9	Bis (2,3-dibromopropyl)phosphate (BIS)	Not detected (5 mg/kg)			EN ISO 17881-2:2016	5 mg/kg
545-55-1	Tris(1-aziridinyl)phosphine oxide) (TEPA)	Not detected (5 mg/kg)			EN ISO 17881-2:2016	5 mg/kg
59536-65-1	Polybromobiphenyls (PBB)	Not detected (5 mg/kg)			EN ISO 17881-1:2016	5 mg/kg
13674-87-8	Tris(1,3-dichloro-2-propyl) phosphate (TDCPP/TDCP)	Not detected (5 mg/kg)			EN ISO 17881-2:2016	5 mg/kg
13674-84-5	Tris(1-chloro-2-propyl) phosphate (TCPP)	Not detected (5 mg/kg)			EN ISO 17881-2:2016	5 mg/kg
79-94-7	Tetrabromobisphenol A (TBBP A)	5 mg/kg			EN ISO 17881-1:2016	5 mg/kg
85535-84-8	<b>*Short Chain Chlorinated Paraffins (SCCP) (C10-C13)</b>	Not detected (50 mg/kg)			Combined CADS / ISO 18219:2015 method V1:06/17 Extraction: ISO 18219 and analysis by GC-NCI-MS	100 mg/kg
85535-85-9	<b>*Medium-chain chlorinated paraffins (MCCP) (C14-C17)</b>	1000 mg/kg				
Various	Hexabromocyclododecane (HBCDD)	Not detected (5 mg/kg)			EN ISO 17881-1:2016	5 mg/kg
Various	Polybrominated diphenyl ethers (PBDEs)	Not detected (5 mg/kg)			EN ISO 17881-1:2016	5 mg/kg



## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
* <b>Fluorinated Greenhouse Gases</b>						
Various	See Appendix 4 for complete list	Not detected (0.1 mg/kg)		EU Regulation (EC) No. 842/2006	Sample preparation: Purge and trap — thermal desorption or SPME. Measurement: GC/MS.	0.1 mg/kg
* <b>Formaldehyde</b>						
50-00-0	Formaldehyde	75 mg/kg	16 mg/kg	German BGVO; Japanese Law 112; Korea Regulations; Taiwan Regulations; The National Standards of China; Indonesia Regulation No. 07/M-IND/PER/2/2014	<u>Textile</u> : EN ISO 14184-1:2011 (Free & Hydrolyzed formaldehyde).  <u>Leather</u> : ISO 17226-1:2008 Determination by HPLC.	5 mg/kg
50-00-0	Formaldehyde Release	80 mg/kg		EU Directive 2009/48/EC; Germany LFGB	EN 717-3:1996 Wood-based panels –Formaldehyde Release.	10 mg/kg
* <b>Heavy Metals, Extractable</b>						
18540-29-9	Chromium (VI)	Not detected (0.5 mg/kg)		The National Standards of China	Textiles: DIN EN 16711-2:2016 Leather: DIN EN ISO 17072-1:2017	0.5 mg/kg
7439-92-1	Lead (Pb)	1 mg/kg	0.2 mg/kg			0.1 mg/kg
7439-97-6	Mercury (Hg)	0.02 mg/kg				0.005 mg/kg
7440-02-0	Nickel (Ni)	1 mg/kg				0.1 mg/kg
7440-36-0	Antimony (Sb)	30 mg/kg				0.5 mg/kg
7440-38-2	Arsenic (As)	0.2 mg/kg				0.02 mg/kg
7440-43-9	Cadmium (Cd)	0.1 mg/kg				0.02 mg/kg
7440-47-3	Chromium (Cr)	1 mg/kg				0.1mg/kg
7440-48-4	Cobalt (Co)	1 mg/kg				0.1 mg/kg
7440-50-8	Copper (Cu)	25 mg/kg				5 mg/kg

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)		NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
Heavy Metals, Soluble							
7439-92-1	Lead (Pb)	-		90 mg/kg	Egypt: ES 7322/2011; Korea Regulations; Taiwan: CNS 15290/ CNS 15503	ASTM F963-2017	9 mg/kg
7439-97-6	Mercury (Hg)	-		60 mg/kg			6 mg/kg
7440-36-0	Antimony (Sb)	-		60 mg/kg			6 mg/kg
7440-38-2	Arsenic (As)	-		25 mg/kg			2.5 mg/kg
7440-39-3	Barium (Ba)	-		1000 mg/kg			100 mg/kg
7440-43-9	Cadmium (Cd)	Prohibited in textile accessories (metal parts, plastics, and surface coating & painting)	75 mg/kg; Prohibited in textile accessories (metal parts, plastics, and surface coating & painting)				7.5 mg/kg
7440-47-3	Chromium (Cr)	-		60 mg/kg			6 mg/kg
7782-49-2	Selenium (Se)	-		500 mg/kg		50 mg/kg	
* Heavy Metals, Total							
7439-92-1	Lead (Pb)	90 mg/kg			EU REACH Regulation (EC) No 1907/2006 Annex XVII; US CPSIA & State Legislations; Canada Consumer Product Safety Act; Korea Regulations; The National Standards of China	Total Digestion – Microwave digestion, ICP-OES/MS analysis. For Metals– Hot Plate digestion. For positive results of Mercury, confirmation test conducted according to IEC 62321:2008 and analyzed with AAS.	5 mg/kg
7439-97-6	Mercury (Hg)	0.5 mg/kg					0.1 mg/kg
7440-43-9	Cadmium (Cd)	40 mg/kg					5 mg/kg
7440-36-0	Antimony (Sb)	-	100 mg/kg	5 mg/kg			
7440-38-2	Arsenic (As)	-	100 mg/kg	5 mg/kg			
7440-48-4	Cobalt (Co)	-	100 mg/kg	5 mg/kg			
7440-39-3	Barium (Ba)	Data collection					5 mg/kg
7440-47-3	Chromium (Cr)	Data collection					5 mg/kg
7782-49-2	Selenium (Se)	Data collection					5 mg/kg

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
* <u>Nickel Release</u>						
7440-02-0	Nickel Release	0.5 µg/cm²/wk (non-body piercing) 0.2 µg/cm²/wk (body piercing)		EU REACH Regulation (EC) No 1907/2006 Annex XVII; German BGVO; Korea Regulations	Qualitative test according to PD CR 12471:2002 Screening of Nickel Release. For <b>positive</b> results, confirmation according to: Nickel release: EN 1811: 2011+A1:2015 Abrasion of coated items: EN 12472: 2005+A1:2009.	0.05 µg/cm²/week for each
* <u>N-Nitrosamines</u>						
100-75-4	N-Nitrosopiperidine	Not detected (0.5 mg/kg for each)		The National Standards of China	GB/T 24153-2009, with LC/MS/MS verification if positive	0.5 mg/kg for each
55-18-5	N-Nitrosodiethylamine					
59-89-2	N-Nitrosomorpholine					
612-64-6	N-Nitroso- <i>N</i> -ethylaniline					
614-00-6	N-Nitroso- <i>N</i> -methylaniline					
621-64-7	N-Nitrosodipropylamine					
62-75-9	N-Nitrosodimethylamine					
924-16-3	N-Nitrosodibutylamine					
930-55-2	N-Nitrosopyrrolidine					
* <u>Organotin Compounds</u>						
Various	Dibutyltin (DBT)	1 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII; Japanese Law 112; Korea Regulations; Taiwan Regulations	CEN ISO/TS 16179: 2012.	0.05 mg/kg for each
Various	Monobutyltin (MBT)	1 mg/kg				
Various	Dioctyltin (DOT)	1 mg/kg				
Various	Tricyclohexyltin (TCyHT)	1 mg/kg				
Various	Trimethyltin (TMT)	1 mg/kg				
Various	Trioctyltin (TOT)	1 mg/kg				
Various	Tripropyltin (TPT)	1 mg/kg				
Various	Tributyltin (TBT)	Sum of TBT & TPhT: 0.5 mg/kg				
Various	Triphenyltin (TPhT)					

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
<b>* Ortho-Phenylphenol</b>						
90-43-7	Ortho-phenylphenol (OPP)	1000 mg/kg		Industry Guidelines/Best Practice	1 M KOH extraction, 12-15 hours at 90 °C, derivatization and analysis § 64 LFGB B 82.02-08 or DIN EN ISO 17070:2015	0.5 mg/kg
<b>* Perfluorinated Chemicals (PFCs)</b>						
Not allocated	Fluorine content	Not detected (50 mg/kg)		EU REACH Regulation (EC) No 1907/2006 Annex XVII; EU EC (No.) 850/2004; Canadian Environmental Protection Act (CEPA) 1999; Norway Product Regulation FOR 2004-06-01 Nr. 922	EN 14582:2016	50 mg/kg
<b>* Pesticides</b>						
Various	See Appendix 4 for complete list	Prohibited		Switzerland ChemRRV Art. 3 Appendix 1.1; Finland: Ministry of Environment Government Decree on persistent organic substances (735/2002)	ISO 15913/DIN 38407 F2 or EPA 8081/EPA 8151A or BVL L 00.00-34:2010-09.	0.5 mg/kg
<b>* Phthalates</b>						
117-81-7	Di(ethylhexyl) phthalate (DEHP)	Sum of 20 phthalates: 500 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII; Denmark Statutory Order 786; US CPSIA; US California Proposition 65; Canada Consumer Product Safety Act; Korea Regulations; Taiwan Regulations	CPSC-CH-C1001-09.4 GC-MS.  Confirmation by using HPLC-MS.	50 mg/kg for each
117-82-8	Bis(2-methoxyethyl) phthalate (DMEP)					
117-84-0	Di-n-octyl phthalate (DNOP)					
26761-40-0	Di-iso-decyl phthalate (DIDP)					
28553-12-0	Di-isononyl phthalate (DINP)					
68515-42-4	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linearalkyl esters (DHNUP)					
71888-89-6	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP)					
84-61-7	Dicyclohexyl phthalate (DCHP)					
84-75-3	Di-n-hexyl phthalate (DnHP)					
84-74-2	Dibutyl phthalate (DBP)					
84-69-5	Diisobutyl phthalate (DIBP)					
85-68-7	Butyl benzyl phthalate (BBP)					
131-18-0	Dipentyl phthalate (DPP)					
605-50-5	Diisopentylphthalate (DIPP)					

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
Phthalates, continued						
68515-50-4	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (DHP)	Sum of 20 phthalates: 500 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII; Denmark Statutory Order 786; US CPSIA; US California Proposition 65; Canada Consumer Product Safety Act; Korea Regulations; Taiwan Regulations	CPSC-CH-C1001-09.4 GC-MS.  Confirmation by using HPLC-MS.	50 mg/kg for each
68515-51-5; 68648-93-1	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate					
84777-06-0	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear					
776297-69-9	N-pentyl-isopentylphthalate (NPIPP)					
131-11-3	Dimethyl phthalate (DMP)					
84-66-2	Diethyl phthalate (DEP)					
* Polycyclic Aromatic Hydrocarbons (PAHs)						
120-12-7	Anthracene	1 mg/kg for each of below 8 PAHs: Benzo[a]pyrene, Benzo[e]pyrene, Benzo[a]anthracene, Chrysene, Benzo[b]fluoranthene, Benzo[k]fluoranthene, Benzo[j]fluoranthene, Acenaphthylene, Benzo[k]fluoranthene, Dibenzo[a,h]anthracene.  Sum of 18 PAHs: 10 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII; German LFGB §30; Taiwan Regulations	German AfPS GS 2014:01 PAK	Each: 0.1 mg/kg
129-00-0	Pyrene					
191-24-2	Benzo[ghi]perylene					
192-97-2	Benzo[e]pyrene					
193-39-5	Indeno[1,2,3-cd]pyrene					
205-82-3	Benzo[j]fluoranthene					
205-99-2	Benzo[b]fluoranthene					
206-44-0	Fluoranthene					
207-08-9	Benzo[k]fluoranthene					
208-96-8	Acenaphthylene					
218-01-9	Chrysene					
50-32-8	Benzo[a]pyrene (BaP)					
53-70-3	Dibenz[a,h]anthracene					
56-55-3	Benzo[a]anthracene					
83-32-9	Acenaphthene					
85-01-8	Phenanthrene					
86-73-7	Fluorene					
91-20-3	Naphthalene					
* Polyvinyl Chloride (PVC)						
9002-86-2	Polyvinyl chloride	Prohibited (footwear, apparel, equipment)	NB Standard	Beilsteins test –Chlorine Detection (positive results request FTIR tests).	Negative/Positive	
				Infrared Analysis – Spectroscopy (IR).	10% for FTIR Test	

## FINISHED PRODUCT RESTRICTED SUBSTANCES LIST

CAS No.	Substance	NB Limit (Adult)	NB Limit (Children: 0-14yrs)	Key Regulations	Test Methods	Lab MDL
<b>* Styrene</b>						
100-42-5	Styrene monomer	500 mg/kg		US State Legislations	120 degrees C for one hour headspace solvent extraction GC-MS; Methanol extraction at 60 degrees C.	10 mg/kg
<b>* Volatile Organic Compounds (VOCs)</b>						
1330-20-7	Xylene	1000 mg/kg		EU REACH Regulation (EC) No 1907/2006 Annex XVII; Oeko-Tex Standard 100; US California Proposition 65	For general VOC screening: GC/MS headspace 45 minutes at 120 degrees C. For DMAC: DIN CEN ISO/TS 16189:2013 LC-MS confirmation if phenol is detected by GC-MS).	5 mg/kg
106-42-3	p-xylene	1000 mg/kg				
108-38-3	m-xylene	1000 mg/kg				
95-47-6	o-xylene	1000 mg/kg				
1319-77-3	Cresol (Methylphenole)	1000 mg/kg				
95-48-7	o-cresol	1000 mg/kg				
106-44-5	p-cresol	1000 mg/kg				
108-39-4	m-cresol	1000 mg/kg				
108-88-3	Toluene	1000 mg/kg				
108-95-2	Phenol	10 mg/kg				
127-18-4	Tetrachloroethylene	1000 mg/kg				
630-20-6	1,1,1,2-Tetrachloroethane	1000 mg/kg				
79-34-5	1,1,2,2- Tetrachloroethane	1000 mg/kg				
68-12-2	Dimethyl formamide (DMF)	1000 mg/kg				
71-43-2	Benzene	5 mg/kg				
75-09-2	Dichloromethane	1000 mg/kg				
76-01-7	Pentachloroethane	1000 mg/kg				
79-01-6	Trichloroethylene	1000 mg/kg				
56-23-5	Carbon tetrachloride	1000 mg/kg				
67-66-3	Chloroform	1000 mg/kg				
107-06-2	1,2-Dichloroethane	1000 mg/kg				
75-35-4	1,1-Dichloroethylene	1000 mg/kg				
127-19-5	Dimethylacetamide (DMAC)	1000 mg/kg				
71-55-6	1,1,1- Trichloroethane	1000 mg/kg				
79-00-5	1,1,2- Trichloroethane	1000 mg/kg				
75-15-0	Carbon disulfide	1000 mg/kg				
100-41-4	Ethylbenzene	1000 mg/kg				
50-00-0	Formaldehyde	1000 mg/kg			Headspace HPLC-MS	20 mg/kg

## 2. PACKAGING RESTRICTED SUBSTANCES LIST

Packaging materials include but not limited to hangtags, tissue paper, stuffing paper, inserts, tape, labels, boxes and bags. All packaging materials used for New Balance products must comply with the RSL requirement for packaging materials (refer to below table).

PACKAGING RESTRICTED SUBSTANCES LIST					
CAS No.	Substance	NB Max Limit	Regulation	Test Method	Lab MDL
7440-43-9	Cadmium (Cd)	CONEG (TPCH) Heavy Metals: Total Sum of all metals: 100 mg/kg	EU Directive 94/62/EC; US Toxics in Packaging Clearinghouse (TPCH)	Total content: Microwave digestion with nitric acid, analysis by ICPMS. Cr (VI) verification: Alkaline mixtures digestion and analysis by UV-VIS Spectrophotometer.	5 mg/kg for each
7439-92-1	Lead (Pb)				
7439-97-6	Mercury (Hg)				
18540-29-9	Chromium VI				
9002-86-2	PVC	Prohibited		-	-
63231-67-4	Silica Gel	Prohibited		-	-
624-49-7	Dimethyl Fumarate	Prohibited	EU REACH Regulation (EC) No 1907/2006; Korea Regulations; Taiwan Regulations	Extract with Organic solvent, and analysis by GC-MS.	0.1 mg/kg

## 3. ELECTRONIC & ELECTRICAL EQUIPMENT RESTRICTED SUBSTANCES LIST

Electronic and Electrical Equipment (EEE) components are defined as any component that is dependent on electric current or electromagnetic fields to function properly. Substances contained in EEE components must meet the limits of this section. However, all other non-EEE components must meet the complete NB RSL limits applied to equipment which is dependent on electric currents or electromagnetic fields for working properly; designed for use with a voltage rating not exceeding 1000 volt a.c. or 1500 volt for d.c.; and fallen under the categories set out in Annex 1A of 2002/96/EC. Sampling and analysis are based on the test request requirements.

ELECTRONIC AND ELECTRICAL EQUIPMENT RESTRICTED SUBSTANCES LIST					
CAS No.	Substance	NB Max Limit	Regulation	Test Method	Lab MDL
7439-92-1	Lead (Pb)	1000 mg/kg	EU RoHS II (2011/65/EU)	IEC 62321, Ed.1, 2008	100 mg/kg
7440-43-9	Cadmium (Cd)	100 mg/kg		IEC 62321, Ed.1, 2008	10 mg/kg
7439-97-6	Mercury (Hg)	1000 mg/kg		IEC 62321, Ed.1, 2008	100 mg/kg
7440-47-3	Chromium (VI)	1000 mg/kg		IEC 62321, Ed.1, 2008	100 mg/kg
Various	PBDE / PBBS	1000 mg/kg		IEC 62321, Ed.1, 2008	100 mg/kg



## 4. MANUFACTURING RESTRICTED SUBSTANCES LIST

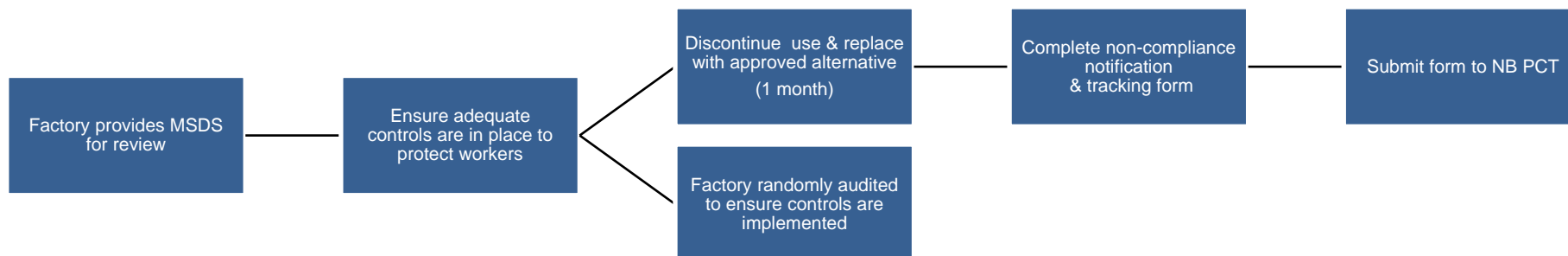
Manufacturing Restricted Substances List (MRSL) applies to the chemicals used in the manufacturing of materials and/or finished products for New Balance. Chemicals on the MRSL usually can be easily substituted with more environmentally friendly ones and must be eliminated during the manufacture of New Balance products.

In addition to the MRSL, NB has adopted the Zero Discharge of Hazardous Chemical (ZDHC) Group's MRSL. New Balance is a member of the ZDHC Group which includes other major apparel and footwear brands and retailers committed to help lead the industry towards zero discharge of hazardous chemicals. The ZDHC MRSL sets threshold limit values on restricted substances in chemical formulations used in facilities that process textile materials, trim parts and leather for use in footwear and apparel. New Balance expects that material suppliers and factories will communicate the ZDHC MRSL to their chemical suppliers to ensure that the listed substances are not present in chemical formulations above established limits. The latest version of the ZDHC MRSL can be found on the ZDHC website at [roadmaptozero.com](http://roadmaptozero.com).

MANUFACTURING RESTRICTED SUBSTANCES LIST			
CAS No.	Restricted Substance	Synonyms	Common Potential Uses
71-55-6	1,1,1-trichloroethane	1,1,1 – TCA, methyl chloroform	Solvent or Cleansers
79-00-5	1,1,2-Trichloroethane	Vinyl trichloride	Solvent or cleanser
75-35-4	1,1-Dichloroethylene	1,1-dichloroethene	Solvent or cleanser
107-06-2	1,2-Dichloroethane	Ethylene chloride	Solvents in Cleaner, adhesives, paints and coating
110-80-5	2-Ethoxyethanol	Ethylene glycol monoethyl ether; EGEE	Solvent in Chemicals / Inks / Paints
111-15-9	2-Ethoxyethyl acetate	2-EEA	Solvent in Chemicals / paints / lacquers / vanishes
109-86-4	2-Methoxyethanol	Ethylene glycol monomethyl ether; EGME	Solvent in Chemicals / Inks / Paints
101-14-4	4,4'-methylenebis (2-chloroaniline)	MOCA	Press pad
71-43-2	Benzene	Benzol, phenyl hydride	Solvent or cleanser
108-90-7	Chlorobenzene	monochlorobenzene ,MCB	Solvent
Various	Dichlorobenzene		Solvent
111-96-6	Bis(2-methoxyethyl) ether	Diglyme	Solvent in sealant and adhesives, paints and coatings
1319-77-3	Cresol	Cresylic acid	Nylon and plastic primers and resins
75-09-2	Dichloromethane	DCM	Solvent or cleanser
68-12-2	Dimethyl formamide	DMF	Solvent or cleanser
84-74-2	Di-n-butyl phthalates DBP	Phthalic acid, etc.	Plasticizers, solvents
100-41-4	Ethylbenzene	Phenylethane	Solvent or cleanser
111-76-2	Ethylene glycol monobutyl ether	EGBE	Solvent or cleanser

## MANUFACTURING RESTRICTED SUBSTANCES LIST

CAS No.	Restricted Substance	Synonyms	Common Potential Uses
50-00-0	Formaldehyde	Formic aldehyde	Solvent cleanser, anti-shrinkage resin, mold inhibitor
96-45-7	Imidazolidine-2-thione	2-imidazoline-2-thiol	Vulcanization agent in general rubber goods
108-39-4	m-Cresol	Cresylic acid	Nylon and plastic primers and resins
110-54-3	n-hexane	Hexane	Solvent or cleanser
872-50-4	n-methyl pyrrolidone	NMP, 1-methyl-2-pyrrolidinone	Solvent or cleanser
127-19-5	N,N-Dimethylacetamide	DMAC	Solvent in primers, adhesives and resins
25154-52-3	Nonylphenol	NP	Detergents, Softener, Dispersant, Degreaser, Plasticizer
9016-45-9	Nonylphenols ethoxylates	NPEO	Detergents, Softener, Dispersant, Degreaser, Plasticizer
95-48-7	o-Cresol	Cresylic acid	Nylon and plastic primers and resins
27193-28-8	Octylphenol	OP	Detergents, Softener, Dispersant, Degreaser, Plasticizer
Various	Octylphenol ethoxylates	OPEO	Detergents, Softener, Dispersant, Degreaser, Plasticizer
106-44-5	p-Cresol	Cresylic acid	Nylon and plastic primers and resins
76-01-7	Pentachloroethane		Solvent or cleanser
108-95-2	Phenol	Carbolic acid, phenyl alcohol, phenyl hydroxide	Solvent in primers, adhesives and resins for nylon and plastic
127-18-4	Tetrachloroethylene	Perchloroethylene, PERC	Solvent or cleansers
109-99-9	Tetrahydrofuran	THF	Solvent or cleansers
108-88-3	Toluene	Methylbenzene	Solvent in primers, adhesives, paints and inks
Various	Trichlorobenzene - all isomers	TCB	Solvent or cleanser
79-01-6	Trichloroethylene	TCE	Solvent or cleanser, <b>NB prohibits the use of TCE in wool finishing for all product sourced from the NB Global Office</b>
67-66-3	Trichloromethane	Chloroform	Solvent or cleanser
25155-23-1	Trixylyl phosphate	TXP	Plasticizer, flame retardant
1330-20-7	Xylene – all isomers	o,m,p-xylene	Solvent in primers, adhesives, paints and inks
96-18-4	1,2,3-trichloropropane	TCP; allyl trichloride; glycerol trichlorohydrin; trichlorohydrin	Solvent, cleanser, degreaser
75-12-7	Formamide	Methanamide; carbamaldehyde	Softener, or solvent in synthetic leather and inks production
Various	Class I & II Ozone Depleting Substances	Various	Solvent & cleanser



*MRSL non-compliance process flow chart*

## 5. FACTORY CHEMICAL INFORMATION LIST

The chemical information list (CIL) is required for all factories producing NB footwear, apparel, accessories, equipment, packaging and other products. All chemicals, inks, paints, solvents, primers, adhesives, and auxiliaries must be identified and listed on the CIL. These items must meet the NB RSL requirements and must be tested to assure compliance. The standard format for the CIL is attached in Appendix 5. The CIL will be audited periodically by NB or its appointed representatives. In the event that items are found within the production process not listed on the CIL, NB reserves the right to direct production be stopped until such items can be proved to be in compliance with the RSL requirements through testing, reviewing of material safety data sheets, and finished product testing.

Factories are responsible for all subcontractors' CIL and must assure that items used in production by their subcontractors are RSL approved and managed on a CIL. The factory must ensure traceability of all chemicals used and documented on the CIL to a Purchase Order Number for three years. The factory must ensure that those substances listed in the MRSL are not introduced into production of NB products.

## GUIDANCE ON SPECIFIC CHEMISTRIES & SUBSTANCES

---

### 1. ANTIMICROBIAL SUBSTANCES

New Balance requires all antimicrobial substances to comply with applicable regulations of the United States Environmental Protection Agency's Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and European Union's Biocidal Product Regulation 528/2012 (BPR) concerning the placing of biocidal products on the market. All appropriate registration information for these substances must be supplied to New Balance.

### 2. NATURAL LATEX

Natural latex must not be used in any New Balance product.

### 3. NANOTECHNOLOGY MATERIALS

Nanomaterials are chemical substances or materials that are manufactured and used at a very small scale (one or more external dimensions are in the size range of 1 to 100 nanometers). Nanomaterials are developed to exhibit unique characteristics - such as increased strength, chemical reactivity or conductivity - compared to the same material without nanoscale features.

Due to the uncertainty of risk associated with using nanomaterials, the NB PCT reviews substances containing nanomaterials that are intentionally used in products to ensure they do not pose risks to the environment and/or raise health and safety concerns for workers and consumers. All nanomaterial-containing substances must be reviewed by the PCT prior to their use in products. In addition to compliance with the RSL requirements, nanomaterial-containing substances must meet all applicable global legislations including registering substances with appropriate authorities.

### 4. POLYVINYL CHLORIDE

Polyvinyl chloride (PVC) containing materials must not be used in any NB products. New Balance products are screened during testing to ensure compliance with this requirement. Any detection of PVC is deemed as a violation of the RSM.

## 5. PERFLUORINATED CHEMICALS

No intentional use of perfluorinated chemicals (PFCs) of environmental concern<sup>1</sup> is allowed in the process of manufacturing NB products. The only exceptions to this policy will be given through a management review process in place for a limited transition period through 2020. The Threshold Limit Value (TLV) is non-detect for PFCs.

New Balance is pursuing this objective by:

- Banning the purchase or use of any raw materials containing any detectable levels of any PFC of environmental concern;
- Banning the intentional use of any PFC of environmental concern in the process of manufacturing any NB-labeled product; and
- Testing NB-labeled products using the NB approved test method for total fluorine content with EN 14582.



<sup>1</sup> PFCs of environmental concern are defined as per- and poly-fluorinated chemicals that are highly fluorinated, small enough to be bioavailable (<3,000 Daltons), and persistent (half-life greater than 60 days in water or soil). This term also applies to materials which would be considered precursors to PFCs – i.e., those that degrade under normal conditions to become highly fluorinated, bioavailable, and persistent.

## RESTRICTED SUBSTANCES MANAGEMENT BEST PRACTICES

---

### 1. GENERAL PRACTICES TO AVOID RESTRICTED SUBSTANCES

The best practices listed below are intended to serve as a tool to help all parties in the supply chain identify, resolve and prevent RS issues related to NB products. This is not an exhaustive list of all potential issues, sources or prevention and remediation solutions. Please consult a member of the PCT for specific suggestions related to restricted substances best practices. Some recommended best practices include the following:

- A. Use formaldehyde-free or low formaldehyde resins and binders.
- B. Use dyestuff, pigments, adhesives from suppliers with commitments to chemical compliance.
- C. Use LC/MS as a confirmation for a limited number of pigments that will give a false positive for azo amines if tested using GC/MS.
- D. Use non-APEO agents from dye additives.
- E. Use detergents without content of APEO; e.g., AEO.
- F. Shift sourcing to raw material suppliers with commitments to RS compliance.
- G. Avoid using cadmium as a stabilizer.
- H. Use phthalate-free and PVC-free inks for screen prints.

### 2. RSL SUPPLIER CERTIFICATION PROGRAM

In an effort to strengthen relationships with suppliers regarding chemical management and restricted substances compliance, the NB PCT has implemented an RSL Certification Program. RSL-certified suppliers are those with internal chemical management systems aimed at preventing RSL-related issues with materials. Certified suppliers are categorized into Gold, Silver and Bronze; with Gold being the highest level of achievement. The PCT audits suppliers based on a set criteria including upper management commitment, documentation of policies and procedures regarding RSL compliance; chemical and risk management; raw materials management and manufacturing process control; multiple supply chain control; and corrective action and performance improvement plans. New Balance encourages eligible suppliers to participate in this program in order to realize its benefits.

### 3. RSL ONLINE TRAINING

Suppliers are encouraged to enroll in the RSL online training to fully understand NB's restricted substances requirements and their responsibilities regarding compliance with those requirements. See link below to access the training.

**[New Balance RSL Online Training for Suppliers.](#)**

## KEY REGULATIONS

---

### 1. CPSIA AND CHILDREN'S PRODUCTS REGULATIONS

The United States' Consumer Product Safety Improvement Act (CPSIA) requires manufacturers of domestic and imported children's products to test and certify their products to ensure they meet specific product safety requirements. New Balance has established an internal program to assure CPSIA compliance. Suppliers are responsible to ensure their materials/products provided to NB are in compliance with the CPSIA. The New Balance Product Safety Committee (NBPSC) provides additional oversight to the manufacturing and production of children's products as it relates to safety, quality, and restricted substances. Members of the NBPSC, including the Head of Product Chemistry, has the ability to review testing, regulatory, and safety documentation in comparison with this RSM, other safety manuals, and RSL standard operating procedures.

Additionally, NB classifies a toy as a version of a sporting goods and/or athletic equipment that cannot be used for actual play, coaching and practice sessions of an actual sport. Products not classified as a toy are in general sporting goods and/or athletic equipment. Items identified as toys must meet the requirements of the EU Toy Directive (2009/48/EC), CPSIA, EN 71, ASTM F963 and other regulations regarding toys.

### 2. PROPOSITION 65

The Safe Drinking Water and Toxic Enforcement Act of 1986, known as Proposition 65, requires the State of California to annually publish a list of chemicals known to cause cancer, birth defects, or other reproductive harm. Proposition 65 is significant because the regulation requires manufactures and businesses to label products containing any of the harmful chemicals and allows consumers to initiate legal action against a manufacturer or business which fails to provide a reasonable warning.

### 3. REACH

The European Chemical Legislation REACH – Registration, Evaluation, Authorization and Restriction of Chemical substances – aims to ensure a high level of protection for human health and the environment. It includes Annex XVII (substances restricted in the European Union under the legislation), list of Substances of Very High Concern (SVHC) and Annex XIV (the list of substances subject to authorization prior to their placement on the market or use after a specified date). Suppliers are responsible to continuously review updates to Annex XVII, list of SVHC and Annex XIV to make sure that all the materials/products provided to NB are in compliance with the REACH requirements. The communication requirements of REACH ensure that manufacturers and importers, in addition to their customers (i.e. downstream users and distributors) have the information they need to use products safely.

Refer to below link to access the REACH information: [echa.europa.eu](https://echa.europa.eu).

#### 4. U.S. STATES CHEMICAL REPORTING LAWS

The States of Washington, Vermont and Oregon have established lists of chemicals that manufacturers must report if they are contained in children's products sold in those States. Suppliers should assume all NB products are sold in those States. These lists are called the Reporting Lists of Chemicals of High Concern to Children. As required by these laws, chemicals on the lists are toxic and have either been found in children's products or have been documented to be present in human tissue. However, the mere presence of these chemicals in children's products does not necessarily indicate that there is a risk of harm. Suppliers who are the importer of record of NB branded children's products must determine whether or not reportable chemicals are present in finished products at or above established threshold levels and report to each State when applicable.





## OTHER POLICY INITIATIVES

---

### 1. LICENSEE PRODUCT COMPLIANCE PROGRAM

Licensees and buying agents of NB are required to comply with the procedures and guidelines of the New Balance Licensee Product Compliance Program (LCPC). This compliance is critical to the product chemistry expectations of NB. Contact the New Balance Licensee Compliance Team at [LicenseeCompliance@newbalance.com](mailto:LicenseeCompliance@newbalance.com) for more details.

### 2. ANIMAL MATERIALS POLICY

At New Balance, we are committed to ethical and sustainable sourcing practices that protect people and our environment. We recognize that a key opportunity to minimize and mitigate our environmental and social impact starts at the product development stage with the selection of the materials we use. We aim to ensure that animal health and welfare are protected wherever animal-derived materials are used as raw materials in the manufacturing of our products. New Balance prohibits use of the following animal materials:

**ANIMAL SKINS:** exotic skins such as alligator, crocodile, lizard, snake (e.g., cobra, python), ostrich, fish, and marine mammals (e.g., whale, dolphin, porpoise (delphinidae), sea otter); bovine/cow hides sourced from the Amazon Biome, China, and India; skins derived from any species of domesticated or feral dog or cat; skins that are considered “fur” (fur does not include hair-on hides from domestic animals raised for food or wool production (e.g., sheep shearling)); and any part or product thereof, of a polar bear, leopard, ocelot, tiger, cheetah, jaguar, sable antelope, wolf (canis lupus), zebra, sea turtle, colobus monkey, vicuna, free-roaming feral horse, Spanish lynx, or elephant.

**WOOL:** wool fiber that is sourced from mulesed sheep.

**DOWN:** down and feathers plucked from live and/or force-fed geese or birds (New Balance requires all down and feathers used in product to be from duck or geese and certified under the **Responsible Down Standard**).

**OTHER:** materials derived from animals listed as Vulnerable (VU), Endangered (EN), Critically Endangered (CR), or Extinct in the Wild (EW) as defined by the International Union for Conservation of Nature and Natural Resources (IUCN).

In addition, New Balance seeks to minimize usage of kangaroo leather, and restricts the sourcing of kangaroo leather to that which is harvested lawfully under Australian national and state law, the U.S. Federal Endangered Species Act, and applicable international conventions.

Compliance with this policy is mandatory for all products, including licensed products, bearing trademarks or logos owned by New Balance Athletics, Inc. or its affiliates.



### 3. POLICY ON CONFLICT MINERALS

New Balance is committed to ensuring that metals and other minerals contained in our products are obtained, produced and used in an environmentally and socially responsible manner. In particular, NB strives to source in ways that align with our Responsible Leadership commitments and do not contribute to human rights abuses. New Balance works with its agents and direct suppliers to achieve these goals.

Under the Conflict Minerals provisions of the Dodd-Frank Wall Street Reform and Consumer Protection Act, publicly traded companies – including retailers which sell NB products – are required to disclose annually their use of Conflict Minerals. New Balance is required to document its use of four metals – gold, columbite-tantalite (tantalum), cassiterite (tin) and wolframite (tungsten) (collectively, the Conflict Minerals) – and whether these Conflict Minerals originated in the Democratic Republic of Congo (DRC) or adjoining countries (collectively, the Covered Countries). The goal of these regulations is to end the violent conflict in the region which has been partially financed by the exploitation and trade of Conflict Minerals originating in the Covered Countries. New Balance will conduct an annual good faith inquiry into the origin of Conflict Minerals that are used in production of our products. In particular, this inquiry will be reasonably designed to determine whether any such minerals originated in the Covered Countries or are from recycled or scrap sources. New Balance expects its agents and suppliers to participate fully in this inquiry, including providing complete and timely responses to surveys and other inquiries requested.

In the event NB has a reason to believe that Conflict Minerals may have originated in the Covered Countries, NB will perform due diligence on its supply chain in a manner consistent with the guidance issued by the Organization for Economic Cooperation and Development (OECD). New Balance encourages suppliers to consult external resources, such as the Electronic Industry Citizenship Coalition (EICC) and the Global e-Sustainability Initiative's Responsible Minerals Initiative (RMI) as one way to help determine which smelters and refiners may be validated as "conflict-free". Please refer to the following link for more information about the RMI: [responsiblemineralsinitiative.org](https://responsiblemineralsinitiative.org).

Compliance with this policy is mandatory. Noncompliance to this policy could result in penalties, including termination of NB's business with a supplier.

### 4. POLICY ON UZBEKISTAN COTTON

The NB Supplier Code of Conduct strictly prohibits the use of forced labor and child labor in our supply chain. According to several studies from governments and non-governmental organizations (NGOs), the Government of Uzbekistan annually requires children to work for low wages in the country's cotton fields. NB has therefore decided to prohibit the use of Uzbekistan cotton in our products. This policy will remain in place until NB has determined that the Government of Uzbekistan has taken meaningful steps to cease the practice of using children to harvest cotton. NB recognizes that the cotton supply chain is complex and that traceability of cotton is a difficult task. However, all suppliers shall work with their fabric and other component suppliers to ensure that they are not using any Uzbekistan cotton in NB products. Suppliers shall also identify the country of origin for cotton that is used in NB products and retain this information on site. NB reserves the right to conduct random inspections and audit these cotton country-of-origin records. Any supplier who discovers that it is using cotton from Uzbekistan must notify NB immediately. Suppliers who discover that they are using Uzbekistan cotton and disclose this fact immediately will be given sufficient time to find alternative sources. Suppliers who continue to use Uzbekistan cotton but do not disclose its use to NB may face future remedial action, up to and including termination of business.

## GREEN CHEMISTRY, ALTERNATIVES, & CHEMICAL PHASE OUT

### 1. GREEN CHEMISTRY RESOURCES

New Balance is committed to producing safe products for all consumers, and also supports the preservation of our natural resources. New Balance encourages all suppliers to adopt principles of green chemistry, including use of inherently safer chemicals, pollution prevention, use of renewable feedstocks, etc. In the case of recycled materials, a tier testing process (development, production, and repeat orders) might be needed to qualify for RSM compliance to reduce the risk of contaminants that may be present in the finished product due to the varying differences in recycled feedstocks. Below are examples of resources suppliers can utilize in adopting green chemistry principles.

RESOURCES FOR ADOPTING GREEN CHEMISTRY PRINCIPLES		
Resource	Description	Website
AFIRM Chemical Information Sheets	Information sheets on restricted substances, including where they may be found in the supply chain, why they are restricted, guidance on sourcing compliant chemical formulations and/or materials, and information on potential safer alternatives	<a href="http://afirm-group.com/information-sheets">http://afirm-group.com/information-sheets</a>
BlueSign	Solution for a sustainable textile production which eliminates harmful substances from the beginning of manufacturing processes	<a href="http://www.bluesign.com/index.php?id=115">http://www.bluesign.com/index.php?id=115</a>
ChemSec Tools for Sustainable Chemicals Management	Online tools used to help identify chemicals of concern and how to phase out those chemicals of relevance to the textile industry	<a href="http://www.chemsec.org">www.chemsec.org</a>
CleanGredients	Online database of cleaning product ingredient chemicals, providing verified information about the environmental and human health attributes of listed ingredients	<a href="http://www.cleangredients.org/home">http://www.cleangredients.org/home</a>
EU Substitution Support Portal (SUBSPORT)	Online resource for safer alternatives to some hazardous chemicals in commerce	<a href="http://www.subsport.eu">http://www.subsport.eu</a>
Global Organic Textiles Standard (GOTS)	Standard which ensures the organic status of textiles from harvesting of the raw materials through environmentally and socially responsible manufacturing all the way to labeling in order to provide credible assurance to the consumer	<a href="http://www.global-standard.org">http://www.global-standard.org</a>
GreenScreen	Method for comparative Chemical Hazard Assessment (CHA) that can be used for identifying chemicals of high concern and safer alternatives	<a href="http://www.cleanproduction.org/Greenscreen.v1-2.php">http://www.cleanproduction.org/Greenscreen.v1-2.php</a>
OEKO-TEX Eco-Passport System	Provides assistance when selecting textile auxiliaries, chemicals and preparations that are OEKO-TEX compliant	<a href="https://www.oeko-tex.com/en/manufacturers/manufacturers.xhtml">https://www.oeko-tex.com/en/manufacturers/manufacturers.xhtml</a>
US EPA Chem View	Database which provides access to health and safety data on chemicals regulated under the Toxic Substances Control Act (TSCA)	<a href="http://java.epa.gov/chemview">http://java.epa.gov/chemview</a>
ZDHC Gateway – Chemical Module	Data exchange platform that enables chemical formulators to securely share chemical information with brands and textile, footwear, and leather suppliers in-line with the ZDHC standards	<a href="http://www.roadmaptozero.com/gateway/">http://www.roadmaptozero.com/gateway/</a>

## 2. ALTERNATIVE ASSESSMENTS

New Balance is actively looking for alternatives to chemicals used in the manufacturing and production of all NB products that are compliant with RSL requirements. Identified alternatives are listed in the following table.

ALTERNATIVE SUBSTANCES				
Common Uses	Cas #	Substance Name	Substitution Description	Hazard Assessment
Plasticizers	77-90-7	Acetyl tributyl citrate / ATBC	Acetyl tributyl citrate is valued as a biodegradable plasticizer of low toxicity.	In ECHA harmonized C&L: N/A
	33703-08-1	Diisononyl adipate	Diisononyl adipate is used as a low-temperature-resistant and light-resistant plasticizer in polymers and rubbers. It is permitted in the field of food additive, food contact material. It is used as a carrier solvent for polyurethane system.	In ECHA harmonized C&L: N/A
Detergents Degreaser Softener Surfactants Dispersants	37335-03-8 / 9002-92-0	Fatty alcohol-polyoxyethylene ether / FEO / AEO	Fatty alcohol-polyoxyethylene ethers are non-ionic surfactants which contain both hydrophobic tail portion (fatty alcohol part) and hydrophilic polar head groups (ethoxy chain part). They are soluble in water and many kinds of organic solvents and have excellent functions of emulsification, decontamination, moisture and dispersion; They have resistance to acid and alkali and mainly used in emulsifier, antifoaming agent, solubilizer, detergent and degreaser etc.	In ECHA harmonized C&L: N/A
	132778-08-6	Alkyl polyglycoside / APG	Alkyl polyglycosides (APGs) are a class of non-ionic environmentally friendly surfactants widely used in a variety of household and industrial applications. They are derived from sugars and fatty alcohols; therefore, they are generally favored for their manufacture from renewable resources.	In ECHA harmonized C&L: N/A
	-	N-alkyl glucose amide (AGA) / N-acyl-N-methyl glucamine (MEGA)	Similar as APG, AGA/MEGA is one kind of non-ionic environmentally friendly surfactants, and widely used in detergent, pharmaceutical industry, food industry, agriculture, environment, etc.	In ECHA harmonized C&L: N/A
Detergents Degreaser Softener Surfactants Dispersants	-	Fatty methyl ester ethoxylate / FMEE	FMEE is a new type of nonionic surfactants obtained by direct ethoxylation of fatty acid methyl ester in the presence of modified catalyst; FMEE is a good alternative of APEO, and it can be well used in household detergents, hard surface clearing, emulsifiers, dispersants, or oil phase adjusters.	In ECHA harmonized C&L: N/A
	68439-46-3	C9-11 alcohols, ethoxylated (6 EO)	Fatty alcohol ethoxylates, clear to yellowish liquid to waxy solids depending on alkyl chain length and the number of ethoxy groups, are non-ionic surfactants which contain both hydrophobic tail portion (fatty alcohol part) and hydrophilic polar head groups (ethoxy chain part) and thus tend to dissolve in both aqueous and oil phase and to reduce the surface tension of liquids.	Suggested by USA EPA as safer alternatives to NPEs for surfactants
	68131-39-5	C12-15 alcohols, ethoxylated (9 EO)		

## ALTERNATIVE SUBSTANCES

Common Uses	Cas #	Substance Name	Substitution Description	Hazard Assessment
Detergents Degreaser Softener Surfactants Dispersants	64366-70-7	Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl ether); Ecosurf EH-9 /PPG-9-ETHYLHEXETH-5	N/A	Suggested by USA EPA as safer alternatives to NPEs for surfactants
	68515-73-1	D-glucopyranose, oligomeric, decyl octyl glycosides	N/A	
	68411-30-3	Benzenesulfonic acid, C10-13-alkyl derivs., sodium salt	N/A	
	151-21-3	Sodium lauryl sulfate	Sodium lauryl sulfate (SLS), prepared by sulfation of lauryl alcohol and neutralization with sodium carbonate, is a common surfactant which has amphiphilic properties due to C12 chain (lipophilic) attached to a sulfate group (hydrophilic). This bifunctionality in one molecule provides the basic properties useful in cleaners and detergents. SLS is used as a wetting agent in textiles, foaming and cleaning agent in detergent, cosmetic emulsifier, and sometimes in toothpastes.	
	9004-82-4	Polyoxy(1,2-ethanediyl), alpha-sulfo-omega-dodecyloxy-, sodium salt	N/A	
Solvents Cleansers	627-93-0	Dimethyl adipate	Dimethyl adipate is used as a solvent for paint stripping and resins; Cleaner for polymeric residues; pigment dispersant. It is used as an intermediate to produce agrochemicals and dyes.	In ECHA harmonized C&L: N/A
	1310-73-2	Sodium hydroxide	Sodium hydroxide is frequently used as an industrial cleaning agent where it is often called "caustic". It is added to water, heated, and then used to clean process equipment, storage tanks, etc. It can dissolve grease, oils, fats and protein-based deposits. It is also used for cleaning waste discharge pipes under sinks and drains in domestic properties.	In ECHA harmonized C&L: H314-Causes severe skin burns and eye damage.
	90622-58-5	1,3,5,7-Trimethyldecane ; Alkanes, C11-15-iso-	It is an isoalkane and used as solvent in the process of cleaning / washing / rinsing / dry cleaning, during manufacture of textiles, wearing apparel, leather and related products.	In ECHA harmonized C&L: N/A
	616-38-6	Dimethyl carbonate (DMC)	Dimethyl carbonate is often considered to be a green reagent, which is a solvent of both extraction and reaction used in many industries; pharmaceuticals; agrochemicals; hydrocarbon refinery; paint and coatings and fragrances; It is used as a methylation and carbonylation agent in organic synthesis. It can be used as fuel and lube additive.	In ECHA harmonized C&L: H225 Highly flammable liquid and vapor.



### 3. PVC/PHthalATE-FREE PRINTING INKS

New Balance prohibits use of PVC and restricts use of phthalates in products. PVC and phthalates are substances which have been historically used in printing inks. The list below provides some NB approved printing inks which do not intentionally contain PVC and phthalates. Contact a PCT representative for more examples of PVC/phthalate-free printing inks.

LIST OF APPROVED PVC/PHthalATE-FREE PRINTING INKS					
Product		Supplier/Vendor	Contact Information	Website	Location(s) Approved For Use
MSP# 60 series	Water based	Kyung Sung (VN) & PT DongAh	VN: alice@kschem.com.vn IN: kelvin@indodongah.co.id	www.ksch.co.kr	Indonesia , Vietnam
WPL#2010 Series	Solvent based				
Silicon Inks	Solvent based				
No.6800 Series	Water based	Tachia	csming@yeah.net	www.tachia.net	China, Indonesia, Vietnam
No.6400 Series	Water based				
No.1200 Series	Water based				
No.4700 Series	Solvent based				
No.2400 Series	Solvent based				
No.1400 Series	Solvent based				
WF16 Series	Water based	Three Kings	t3kings.com@msa.hinet.net	N/A	China, Vietnam
WF 8 Series	Water based				
SB888 Series	Solvent based				
ACB-TF Series	Solvent based				
WPU Series	Water based	Tri Nang (VN)	bruce.zhineng@gmail.com	http://www.zhinengcc.com/index.html	Vietnam
C Series	Water based	Trust	wufeng@trust-ink.com	www.trust-ink.com	China, Indonesia, Vietnam
PU Series	Solvent based				

## TESTING GUIDELINES & RISK MATRICES

---

All materials used in NB footwear, apparel, accessories, and equipment manufacturing processes must be in compliance with all RSM requirements. The tables below provide guidance on testing and risk for some of the major material types commonly used in NB products. Test items that are “core tests” are mandatory tests that must be conducted for all applicable material types. This is because the risk of restricted substances in those material types is relatively high. Suppliers are also encouraged to conduct testing on items that are classified “optional tests” when applicable. Irrespective of whether a test item is a core test or optional test, suppliers must ensure chemicals or substances on the RSL are not present in NB materials and/or finished products above specified levels. The commonly tested material types as listed in the NB RSL Test Request Form (TRF) are:

- Leather
- Coated leather (leather might be treated with surface coating, paints, or pigments)
- Synthetic leather
- Polymer (EVA, TPU, rubber, sole, foam, latex, thermo soles, etc.)
- Synthetic textiles
- Natural textiles
- Textile blends
- Ink, paint, pigment, print
- Chemicals (Primer, Cement, shoe cream etc.)
- Metals
- Paperboard (insole)
- Wood/cork
- Packaging material [including but not limited to tissue, insert hangtag, box, label, carton etc. (tested to NB packaging RSL limits and restrictions)]
- Material package
- Full products

## MATERIAL RSL TEST PACKAGE REQUIREMENT – FOOTWEAR

Test Items	Leather	Coated Leather	Synthetic Leather	Polymer (EVA, TPU, Rubber, Sole, Foam, Latex, Thermo Soles, etc.)	Textiles			Ink, Paint, Pigment, Print, Shoe Cream	Chemicals (*5) (Primer, Cement, etc.)	Metals (*2)	Paperboard (Insole)	Packaging Material	Material Package (*4)
					Synthetic	Natural	Blends						
1. Azo Dyes (*1)	●	●	○		●	●	●	○			○		
2. Chromium VI (*2)	●	●											
3. CONEG (TPCH) Heavy Metals												●	
4. Soluble Heavy Metals	○	○	○	○	○	○	○			○			
5. Total Heavy Metals	●	●	●	●	○	○	○	●	○	●	●		
6. Disperse Dyes (*1)					●		●						
7. Formaldehyde	●	●	●		●	●	●				●		
8. AP & APEO	●	●	●	●	●	●	●	●	●				
9. Nickel Release (*2)										●			
10. Organotins	○	●	●	●		○		●	●				
11. Chlorinated Phenols	●	●				●	●				●		
12. Phthalates		●	●	●				●	●				
13. PAHs				●									
14. VOCs (*2)								●(*3)	●(*3)				
15. DMFa		●	●										
16. PVC (*2)		○	○	○				○	○				
17. PFCs (*2)	● Only for materials with water repellent functions												
18. N-Nitrosamines (*2)				● (*6)									
19. DMFu	○	○	○										
Material Sample size requirement	20-30 g/ 2 pieces A4			20-30 g/ 2 pieces A4	20-30 g/ 3 pieces A4			30 g/ 100ml	30 g/ 100ml	10 g/ 5 pieces	20 g/ 2 pieces A4	5 g/ 1 pieces A4	20-30 g/ 3 pieces A4
Full Shoe Testing	Adult: 2 pairs of shoes + raw material of small parts					Kids: 3 pairs + raw material of small parts							
Remark: ● Core Test. ○ Optional Test. *1. White and transparent materials exempted. *2. Composite testing is not allowed. *3. For solvent-based only. *4. For material package, test item of each involved components should be considered. *5. For the chemicals consist of only solvents (e.g. cleanser), just test for VOC. *6. For rubber material only.													

• **Core Test:** Mandatory Test for applicable material types      ○ **Optional Test:** Suppliers are encouraged to test these items when applicable.

**Note:** Based on the NB RSM approved testing laboratories, testing cost for each requirement has been established (provided by your RS Contacts). Suppliers acknowledge agreement and responsibility for payment for each package test required by filling out the New Balance Test Request Forms.





## MATERIAL RSL TEST PACKAGE REQUIREMENT – APPAREL & ACCESSORIES

Test Items	Leather	Coated Leather	Synthetic Leather	Polymer (Rubber, Foam, Plastics, etc.)	Textiles			Printing/Coating	Chemicals (*5) (Cleanser, Cement, etc.)	Metals (*2)	Packaging Material
					Synthetic	Natural	Blends				
1. Azo Dyes (*1)	•	•	○		•	•	•	○			
2. Chromium VI (*2)	•	•									
3. CONEG (TPCH) Heavy Metals											•
4. Extractable Heavy Metals					•	•	•				
5. Soluble Heavy Metals	○	○	○	○	○	○	○			○	
6. Total Heavy Metals	•	•	•	•	○	○	○	•	○	•	
7. Disperse Dyes (*1)					•		•				
8. Carcinogenic Dyes (*1)	○	○			○	○	○				
9. Formaldehyde	•	•	•		•	•	•				
10. Flame Retardants					○	○	○				
11. AP & APEO	•	•	•	•	•	•	•	•	•		
12. Nickel Release (*2)										•	
13. Organotins	○	•	•	•		○		•	•		
14. Chlorinated Phenols	•	•				•	•				
15. Phthalates		•	•	•				•	•		
16. PAHs				•							
17. VOCs (*2)									• (*3)		
18. DMFa		•	•								
19. PVC (*2)		○	○	○				○			
20. Pesticides (*2)	○					○	○				
21. PFCs (*2)	• For materials with water repellent functions										
22. N-Nitrosamines (*2)				• (*5)							
23. DMFu	○	○	○								
Material Sample size requirement	20-30 g/ 2 pieces A4			20-30 g/ 2 pieces A4	20-30 g/ 3 pieces A4	20-30 g/ 3 pieces A4	20-30 g/ 3 pieces A4	20 g/ 2 pieces A4	30 g/ 100ml	10 g/ 5 pieces	10 g/ 2 pieces A4
Finish Product Testing	2 pieces or 1 set of product										

Remark: • Core Test. ○ Optional Test. \*1. White and transparent materials exempted. \*2. Composite testing is not allowed. \*3. For solvent-based only. \*4. For the chemicals consist of only solvents (e.g. cleanser), just test for VOC. \*5. For rubber material only.

• **Core Test:** Mandatory Test for applicable material types ○ **Optional Test:** Suppliers are encouraged to test these items when applicable.

**Note:** Based on the NB RSL approved testing laboratories, testing cost for each requirement has been established (provided by your RS Contacts). Suppliers acknowledge agreement and responsibility for payment for each package test required by filling out the New Balance Test Request Forms.



## MATERIAL RSL TEST PACKAGE REQUIREMENT – EQUIPMENT

Test Items	Leather	Coated Leather	Synthetic Leather	Polymer	Textiles			Ink, Paint, Pigment, Print	Chemicals (*5) (Cleanser, Cement, Primer, etc.)	Metals (*2)	Wood/ Cork	Packaging Material
					Synthetic	Natural	Blends					
1. Azo Dyes (*1)	●	●	○		●	●	●	○				
2. Chromium VI (*2)	●	●										
3. CONEG (TPCH) Heavy Metals												●
4. Soluble Heavy Metals	○	○	○	○	○	○	○			○		
5. Total Heavy Metals	●	●	●	●	○	○	○	●	○	●		
6. Disperse Dyes (*1)					●		●					
7. Formaldehyde	●	●	○		●	●	●					
8. Formaldehyde release											●	
9. AP & APEO	●	●	●	●	●	●	●	●	●			
10. Nickel Release (*2)										●		
11. Organotins	○	●	●	●		○		●	●			
12. Chlorinated Phenols	●	●				●	●				●	
13. Phthalates		●	●	●				●	●			
14. PAHs				●								
15. VOCs (*2)								●(*4)	●(*4)			
16. DMFa		●	●									
17. PVC (*2)		●	●	●				○				
18. PFCs (*2)	● For materials with water repellent functions											
19. N-Nitrosamines (*2)				●(*3)								
20. DMFu	○	○	○									
Material Sample size requirement	20-30 g/ 2 pieces A4			20-30 g/ 2 pieces A4	20-30 g/ 3 pieces A4			30 g/ 100ml	30 g/ 100ml	10 g/ 5 pieces	65 g	10 g/ 2 pieces A4
Finished Product Testing	2 pieces or 1 set of finished product											
Remark: ● Core Test ○ Optional Test *1. White and transparent materials exempted. *2. Composite testing is not allowed. *3. For rubber material only. *4. For solvent-based only. *5. For the chemicals consist of only solvents (e.g. cleanser), just test for VOC.												

● Core Test: Mandatory Test for applicable material types ○ Optional Test: Suppliers are encouraged to test these items when applicable.

**Note:** Based on the NB RSL approved testing laboratories, testing cost for each requirement has been established (provided by your RS Contacts). Suppliers acknowledge agreement and responsibility for payment for each package test required by filling out the New Balance Test Request Forms.



## APPENDIX 1: CERTIFICATE OF ACKNOWLEDGEMENT (COA)

---

The undersigned hereby acknowledges receipt of the New Balance Restricted Substance Manual (RSM). The RSM is intended for the control and monitoring of restricted substances and to certify that the products purchased by New Balance Athletics, Inc. or any of its affiliates, distributors, licensees or customers (collectively, "NB") or any materials purchased by manufacturers of New Balance products will comply with the RSM, which may be amended from time to time. The RSM Version 2019 is the official document for all raw materials and finished products from April 1, 2019.

The undersigned agrees to indemnify NB for any loss and damage suffered by NB should restricted substances in excess of the relevant limits be found in any of the materials, components or products supplied by the undersigned. The undersigned confirms that it has been specifically informed by NB about the content of the RSM and hereby agrees to comply with all requirements contained therein.

Please first list your primary business name and address, and then any additional business operations & locations that might do business with NB. You are acknowledging your acceptance of the RSM for all of your business operations by signing this document.

### ACKNOWLEDGED AND AGREED:

Primary Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

Other Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

Other Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

Other Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name and Title: \_\_\_\_\_

(Please Print)

Send to: **Senior Manager, Product Chemistry**  
New Balance Athletics, Inc.  
190 Merrimack Street  
Lawrence, MA 01843

Email in PDF format to: [Environmental.ProgramOffice-US@newbalance.com](mailto:Environmental.ProgramOffice-US@newbalance.com)



## APPENDIX 2: RSL TEST REQUEST FORM (TRF)

APPLICANT INFORMATION			
Company Name:		Contact Person:	
Address:		Telephone No.:	
Fax:		Email:	
BILLING INFORMATION			
Company Name:		Contact Person:	
Address:		Telephone No.:	
Fax:		Email:	
SAMPLE INFORMATION			
Material No. (MAT or MPN):		Quarter/Season:	
Material Identifier (MI):		Color Key:	
Material Description (please list MAT# Description or MI#; Vendor Item Identifier; Composition; Treatment/Finish/Release Paper/Emboss/Process Codes):		Color Name:	
		Material Composition (For Apparel Only):	
		Style/Product No.:	
		Material Supplier Name:	
		Country of Origin:	
Commodity:		Factory & Contact:	
Commodity Subtype:		Ref Code (For Equipment Only):	
Comment:		Warrior Purchase PO No. (For Equipment Only):	
TESTING INFORMATION			
Age Group: <input type="checkbox"/> Adults <input type="checkbox"/> Children (0-12 years old)			
Test Sample: <input type="checkbox"/> Composite Test <input type="checkbox"/> Individual Test			
Sample Type: <input type="checkbox"/> FW-Upper <input type="checkbox"/> FW- Sole <input type="checkbox"/> Apparel/Accessories <input type="checkbox"/> Equipment <input type="checkbox"/> Other			
Test Category: <input type="checkbox"/> Quarterly Test <input type="checkbox"/> Random Audit Test <input type="checkbox"/> CAR Test <input type="checkbox"/> Supplier Internal <input type="checkbox"/> CPSIA <input type="checkbox"/> REACH <input type="checkbox"/> Finished Product RSL Test			
Test Group (please select material type)	Test Request	Minimum Sample Size Requirement	
<input type="checkbox"/> Leather	<input type="checkbox"/> All Core Tests	20-30 g/2 pieces A4	
<input type="checkbox"/> Coated Leather	<b>Or Selected Tests:</b>		
<input type="checkbox"/> Synthetic Leather (PU)	<input type="checkbox"/> Azo Dyes	20-30 g/3 pieces A4	
<input type="checkbox"/> Polymer (EVA, TPU, Rubber, Foam, Thermo Sole, PP, ABS, EPP, PE, Carbon Fiber, Etc.)	<input type="checkbox"/> AP & APEO		
<input type="checkbox"/> Natural Textile	<input type="checkbox"/> Chromium (VI)	30 g/100 ml	
<input type="checkbox"/> Synthetic Textile	<input type="checkbox"/> Carcinogenic Dyes		
<input type="checkbox"/> Blending Textile	<input type="checkbox"/> Disperse Dyes	30 g/100 ml	
<input type="checkbox"/> Ink, Paint, Pigment & Print	<input type="checkbox"/> DMFa		
<input type="checkbox"/> Chemicals (Primer, Cement, Shoe Cream Etc.)	<input type="checkbox"/> DMFu	10 g/5 pieces	
<input type="checkbox"/> Metals	<input type="checkbox"/> Extractable Heavy Metals		
<input type="checkbox"/> Wood & Cork	<input type="checkbox"/> Soluble Heavy Metals	10 g/2 pieces A4	
<input type="checkbox"/> Paperboard	<input type="checkbox"/> Total Heavy Metals		
<input type="checkbox"/> Packaging Material	<input type="checkbox"/> Formaldehyde	20 g/2 pieces A4	
<input type="checkbox"/> Material Package	<input type="checkbox"/> Heavy Metals for packaging		
<input type="checkbox"/> Finished Products	<input type="checkbox"/> Nickel Release	10 g/2 pieces A4	
	<input type="checkbox"/> Organotins		
	<input type="checkbox"/> PAH	20-30 g/3 pieces A4	
	<input type="checkbox"/> Phthalates		
	<input type="checkbox"/> Chlorinated Phenols	<b>Footwear:</b> Adult - 2 pairs of shoes + raw materials; Children - 3 pairs of shoes + raw materials <b>Others:</b> 2 pieces or 1 set of finished products	
	<input type="checkbox"/> PFCs		
	<input type="checkbox"/> PVC Screening		
	<input type="checkbox"/> VOC		
	<input type="checkbox"/> N-Nitrosamines		
	<input type="checkbox"/> Flame Retardants		
	<input type="checkbox"/> Styrene		
	<input type="checkbox"/> Acetophenone and 2-Phenyl-2-Propanol		
Other, please specify the material type: _____		Other, please specify requested tests: _____	
<b>Sample Preparation Guidelines:</b> (1) collect production quality sample (2) each sample must fulfill the minimum sample size requirement (3) place individual sample in plastic bag with secure tie		(4) label the NB MAT No. on the sample (5) fill out the NB Test Request Form completely, including NB MAT No. (6) each sample must be sent together with this TRF to the RSL designated lab.	
Service Required:	Regular (5 working days)	Express (Surcharge: 40%) (3 working days)	Super-express (Surcharge 100%) (1 working day)
Supplier Signature & Company Stamp:			Date: <a href="#">Click here to enter a date.</a>



## APPENDIX 3: RSL CORRECTIVE ACTION REQUEST (CAR)

Supplier Name & Address:	Contact Person Name & Email:
Receiving Factory Name:	Quantities Supplied:
MAT Number/MI Number/Ref Code:	Color Tested:
Laboratory & Location:	Test Date:
Test Report Number:	RSL Failure Item(s):
Failure Number:	NB RSL Limit:
Material/Component/Product Description:	

1. Why is this chemical used in your process?

2. Were you aware that this chemical was in the RSL?

3. What is your action plan & timetable to correct this problem (include all actions that will be implemented for production to prevent failures in the future. What is the chemical replacement or production process change to ensure NB RSL compliance)?

4. Who will be responsible to manage the action plan and communicate back to New Balance?

**Signature:**

**Date:**

Submit form for approval to your designated PCT contact person.

By signing this document, the supplier acknowledges that their material/component and/or product have been found to be non-compliant with the NB RSL. Also, if approved to retest after implementation of corrective action, the supplier will be responsible for the cost of the audit test to ensure that the corrective action is being sustained.



## APPENDIX 4: ASBESTOS, DIOXINS & FURANS, FLUORINATED GREENHOUSE GASES, & PESTICIDES...


CAS NO.	SUBSTANCE	CAS NO.	SUBSTANCE	CAS NO.	SUBSTANCE
Asbestos					
12001-28-4	Crocidolite	12001-29-5	Chrysotile	12172-73-5	Amosite
77536-66-4	Actinolite	77536-67-5	Anthrophyllite	77536-68-6	Tremolite
Chlororganic Carriers					
95-49-8	2-Chlorotoluene	108-41-8	3-Chlorotoluene	106-43-4	4-Chlorotoluene
32768-54-0	2,3-Dichlorotoluene	95-73-8	2,4-Dichlorotoluene	19398-61-9	2,5-Dichlorotoluene
118-69-4	2,6-Dichlorotoluene	95-75-0	3,4-Dichlorotoluene	2077-46-5	2,3,6-Trichlorotoluene
6639-30-1	2,4,5-Trichlorotoluene	76057-12-0	2,3,4,5-Tetrachlorotoluene	875-40-1	2,3,4,6-Tetrachlorotoluene
1006-31-1	2,3,5,6- Tetrachlorotoluene	877-11-2	Pentachlorotoluene	541-73-1	1,3-Dichlorobenzene
106-46-7	1,4-Dichlorobenzene	87-61-6	1,2,3-Trichlorobenzene	120-82-1	1,2,4-Trichlorobenzene
108-70-3	1,3,5-Trichlorobenzene	634-66-2	1,2,3,4-Tetrachlorobenzene	634-90-2	1,2,3,5-Tetrachlorobenzene
95-94-3	1,2,4,5-Tetrachlorobenzene	608-93-5	Pentachlorobenzene	118-74-1	Hexachlorobenzene
95-50-1	1,2-Dichlorobenzene	5216-25-1	P-chlorobenzotrichloride	98-07-7	Benzotrichloride
100-44-7	Benzylchloride				
Dioxins & Furans					
1746-01-6	2,3,7,8-Tetrachlorodibenzo-p-dioxin (Group 1)	40321-76-4	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (Group 1)	51207-31-9	2,3,7,8-Tetrachlorodibenzofuran (Group 1)
57117-31-4	2,3,4,7,8-Pentachlorodibenzofuran (Group 1)	19408-74-3	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (Group 2)	39227-28-6	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (Group 2)
57117-41-6	1,2,3,7,8-Pentachlorodibenzofuran (Group 2)	57117-44-9	1,2,3,6,7,8-Hexachlorodibenzofuran (Group 2)	57653-85-7	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (Group 2)
60851-34-5	2,3,4,6,7,8-Hexachlorodibenzofuran (Group 2)	70648-26-9	1,2,3,4,7,8-Hexachlorodibenzofuran (Group 2)	72918-21-9	1,2,3,7,8,9-Hexachlorodibenzofuran (Group 2)
3268-87-9	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (Group 3)	35822-46-9	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (Group 3)	39001-02-0	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (Group 3)
55673-89-7	1,2,3,4,7,8,9-Heptachlorodibenzofuran (Group 3)	67562-39-4	1,2,3,4,6,7,8-Heptachlorodibenzofuran (Group 3)	109333-34-8	1,2,3,7,8-Pentabromodibenzo-p-dioxin (Group 4)
131166-92-2	2,3,4,7,8-Pentabromdibenzofuran (Group 4)	50585-41-6	2,3,7,8-Tetrabromodibenzo-p-dioxin (Group 4)	67733-57-7	2,3,7,8-Tetrabromodibenzofuran (Group 4)
110999-44-5	1,2,3,4,7,8-Hexabromodibenzo-p-dioxin (Group 5)	110999-46-7	1,2,3,7,8,9-Hexabromodibenzo-p-dioxin (Group 5)	110999-45-6	1,2,3,6,7,8-Hexabromodibenzo-p-dioxin (Group 5)
107555-93-1	1,2,3,7,8-Pentabromodibenzofuran (Group 5)				

CAS NO.	SUBSTANCE	CAS NO.	SUBSTANCE	CAS NO.	SUBSTANCE
Fluorinated Greenhouse Gases					
115-25-3	Perfluorocyclobutane - c-C4F8	138495-42-8	HFC-4310mee - C5H2F10	2551-62-4	Sulphur hexafluoride - SF6
354-33-6	HFC-125 - C2HF5	355-25-9	Perfluorobutane - C4F10	355-42-0	Perfluorohaxane - C6F14
359-35-3	HFC-134 - C2H2F4	406-58-6	HFC-365mfc - CF3CH2CF2CH3	430-66-0	HFC-143 - C2H3F3
431-63-0	HFC-236ea - CHF2CHFCF3	431-89-0	HFC-227ea - C3HF7	460-73-1	HFC-245fa - CHF2CH2CF3
420-46-2	HFC-143a - C2H3F3	593-53-3	HFC-41 - CH3F	678-26-2	Perfluoropentane - C5F12
679-86-7	HFC-245ca - C3H3F5	690-39-1	HFC-236fa - C3H2F6	75-10-5	HFC-32 - CH2F2
75-37-6	HFC-152a - C2H4F2	75-46-7	HFC-23 - CHF3	75-73-0	Perfluoromethane - CF4
76-16-4	Perfluoroethane - C2F6	76-19-7	Perfluoropropane - C3F8	811-97-2	HFC-134a - CH2FCF3
677-56-5	HFC-236cb - CH2FCF2CF3				
Pesticides					
1024-57-3	Heptachlor epoxide	115-29-7	Endosulfan, α-	115-32-2	Dicofol
116-06-3	Aldicarb	118-74-1	Hexachlorobenzene	121-75-5	Malathion
143-50-0	Kepone (Chlordecone)	2385-85-5	Mirex	297-78-9	Telodrin/ Isobenzan
298-00-0	Methyl parathion	309-00-2	Aldrin	33213-65-9	Endosulfan, β-
4234-79-1	Kelevan	465-73-6	Isodrin	50-29-3	Dichloro-diphenyl-trichloro ethane (DDT)
56-38-2	Parathion	57648-21-2	Timiperone (DTTB)	57-74-9	Chlordane
58-89-9	Lindane	60-57-1	Dieldrin	608-73-1	Hexachlorocyclohexane (HCH, all isomers)
6164-98-3	Chlordimeform	72-20-8	Endrin	72-43-5	Methoxychlor
72-54-8	Dichloro-diphenyl-dichloro ethane (DDD)	72-55-9	Dichloro-diphenyl-dichloro ethylene (DDE)	72-56-0	Perthane
76-44-8	Heptachlor	8001-35-2	Toxaphene	8001-50-1	Strobane (Terpene polychlorinates)

CAS NO.	SUBSTANCE	CAS NO.	SUBSTANCE	CAS NO.	SUBSTANCE
Pesticides, continued					
82-68-8	Quintozene	93-72-1	2-(2,4,5-trichlorophenoxy) propionic acid and its salts	93-76-5	2,4,5-Trichlorophenoxyacetic acid and its salts (2,4,5-T)
94-75-7	2,4-Dichlorophenoxyacetic acid and its salts	Various	Halogenated naphthalenes		
N/A	Halogenated diphenyl methanes				
76253-60-6	Monomethyl-tetrachlorodiphenyl methane	93-72-1	2,4,5-TP ChemRRV	86-50-0	Azinophosmethyl
2642-71-9	Azinophosethyl	4824-78-6	Bromophos-ethyl	2425-06-1	Captafol
63-25-2	Carbaryl	510-15-6	Chlorbenzilat	470-90-6	Chlorfenvinphos
1897-45-6	Chlorthalonil	56-72-4	Coumaphos	68359-37-5	Cyfluthrin
91465-08-6	Cyhalothrin	52315-07-8	Cypermethrin	78-48-8	S,S,S-Tributyl phosphorotrithioate (Tribufos)
52918-63-5	Deltamethrin	333-41-5	Diazinone	1085-98-9	Dichlofluanide
120-36-5	Dichloroprop	141-66-2	Dicrotophos	60-51-5	Dimethoate
88-85-7	Dinoseb, its salts and acetate	959-98-8	Endosulfan I (alpha)	66230-04-4	Esfenvalerate
106-93-4	Ethylendibromid	51630-58-1	Fenvalerate	36355-01-8	Hexabromobiphenyl
319-84-6	a-Hexachlorocyclohexane with and without lindane	319-85-7	b-Hexachlorocyclohexane with and without lindane	319-86-8	g-Hexachlorocyclohexane with and without lindane
		94-74-6	MCPA	94-81-5	MCPB
93-65-2	Mecoprop	10265-92-6	Metamidophos	6923-22-4	Monocrotophos
56-38-2	Parathion	608-90-2	Pentabromobenzene	1825-21-4	Pentachloroanisole
52645-53-1	Permethrine	7786-34-7	Phosdrin/mevinphos	31218-83-4	Propethamphos
41198-08-7	Profenophos	13593-03-8	Quinalphos	731-27-1	Tolylfluanide
1582-09-8	Trifluraline	Various	Polychlorinated biphenyls (PCBs)		



## APPENDIX 5: CHEMICAL INFORMATION LIST (CIL) TEMPLATE

 <b>CHEMICAL INFORMATION LIST (CIL)</b>								
Factory Name:			Maintained by:			NB Auditor Name/Date:		
The Factories are responsible to maintain and update this CIL and ensure that all chemicals used meet all NB RSL requirements.								
<b>Chemicals, Solvents, Primers, Cements, Inks/Paints, Cleansers &amp; Additives</b>								
NO.	Name (Commercial)	Product Code	Supplier Name	Manufacture Location	Where & Why it is used?	MSDS (Y/N)	Meet NB RSL (Y/N)	RSL Test Report (if any)