GreenScreen Certified™
Clean Production Action designs and delivers strategic solutions for green chemicals, sustainable materials, and environmentally preferable products.

"GreenScreen Certified™" is a trademark of Clean Production Action. The GreenScreen Certified™ Certification Marks are licensed exclusively by Clean Production Action. Additional information about Clean Production Action, GreenScreen® for Safer Chemicals, and the GreenScreen Certified™ Standard for Furniture & Fabrics is available at www.greenscreencertified.org.

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Version 1.2(1e)  
Revision Summary

This v1.2(1e) update includes editorial changes to the Scope in Section 2 to clarify the types of products and materials that fall within scope of certification. These changes are editorial and do not affect the requirements in the standard.

Acknowledgments

The GreenScreen Certified™ Standard for Furniture and Fabrics provides the means for manufacturers to communicate their use of safer chemicals per the GreenScreen® hazard assessment tools. GreenScreen Certified™ ensures value, usability, and relevance for industry professionals wanting to excel in offering products made with preferred chemistry for people and the planet.

Clean Production Action developed the GreenScreen Certified™ Standard for Furniture and Fabrics in consultation with a diverse group of stakeholders, including manufacturers, purchasers, and external scientific experts from consulting firms, non-profit organizations, and architecture firms.

This effort would not have been possible without the help of the technical peer reviewers and key contributors, who devoted their time and considerable expertise to the development of this standard. Providing advice and feedback during technical peer review shall in no way be construed as support for the final standard. The key contributors ultimately take responsibility for all content and any flaws or errors contained herein. In producing the final standard, we thank Ellen Goldberg, Kayla Williams, and Beverley Thorpe of Clean Production Action for their efforts in developing legal terms of use and website resources necessary to implement and launch the certification program.

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OVERVIEW

1. PURPOSE

1.1 This guidance document outlines the requirements and process for the GreenScreen Certified™ Standard for Furniture & Fabrics administered by Clean Production Action.

1.2 Clean Production Action awards GreenScreen Certified Certification Mark via license to manufacturers and suppliers who have paid the required license fee and have demonstrated that their product(s) meet one of six levels of increasingly stringent certification requirements.

2. SCOPE

2.1 The GreenScreen Certified Standard for Furniture & Fabrics is for evaluating a wide variety of products, including but not limited to:

2.1.1 Furniture, including but not limited to commercial and residential furnishings for indoor and outdoor use such as desk systems, seating, accessories, case work, window treatments, wall coverings, and mattresses;

2.1.2 Materials or parts used in furniture products (e.g., coatings);

2.1.3 Fabrics used in any type of finished good such as furniture, home textiles, apparel, footwear, upholstery, window treatments, and wall coverings; and

2.1.4 Materials used in fabric (e.g., fiber, yarn).

2.2 The Applicant for certification should contact Clean Production Action (certifications@cleanproduction.org) if questions arise as to whether certain products are within the scope of this standard.

2.3 GreenScreen Certified Certification Marks do not guarantee adherence to any other external quality, performance, or regulatory requirements.

3. SERVICE OPTIONS FOR CERTIFICATION

The process for achieving certification involves both a review of the product to the criteria and issuance of the certification. The review of the product can be done by a GreenScreen Certified Reviewer or Clean Production Action. The process steps vary for each of these options and are described in detail in Annex 1 and Annex 2, respectively. Issuance of the certification is by Clean Production Action.

Compiling necessary data for certification requires intensive supply chain engagement that is outside the scope of the certification process. These services are offered by GreenScreen Certified Reviewers and Clean Production Action. Contact a GreenScreen Certified Reviewer or Clean Production Action for more information.
### 4. TERMS AND DEFINITIONS

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<tr>
<th>TERM</th>
<th>DEFINITION</th>
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<tr>
<td><strong>Additive</strong></td>
<td>A chemical compound, chemical substance, or mixture of chemical substances intentionally added to impart a desired characteristic to a product or serve a particular function in the product (e.g., surfactant, solvent, stabilizer, colorant). Additives can be polymeric or non-polymeric in nature.</td>
</tr>
<tr>
<td><strong>Alkylphenols (AP)</strong></td>
<td>Chemical compounds that consist of one or more alkyl chains bound to a phenol. Phenol consists of an aromatic ring and a hydroxyl group. An alkyl chain is an acyclic saturated hydrocarbon (consisting of hydrogen and carbon atoms arranged in a tree structure in which all carbon-carbon bonds are single) with the general formula C&lt;sub&gt;n&lt;/sub&gt;H&lt;sub&gt;2n+1&lt;/sub&gt;.</td>
</tr>
<tr>
<td><strong>Alkylphenol Ethoxylates (APEOs)</strong></td>
<td>Derivatives of alkylphenols prepared by a chemical reaction between ethylene oxide and an alkylphenol, resulting in an ethoxylated chain with the general formula –(OC&lt;sub&gt;2&lt;/sub&gt;H&lt;sub&gt;4&lt;/sub&gt;)&lt;sub&gt;n&lt;/sub&gt;OH replacing the hydroxyl group.</td>
</tr>
<tr>
<td><strong>Antimicrobial Pesticide</strong></td>
<td>“Substances or mixtures of substances used to destroy or suppress the growth of harmful microorganisms such as bacteria, viruses, or fungi on inanimate objects and surfaces.” (US EPA; <a href="https://www.epa.gov/pesticide-registration/what-are-antimicrobial-pesticides">https://www.epa.gov/pesticide-registration/what-are-antimicrobial-pesticides</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td><strong>Antimicrobial Pesticide Product, Public Health</strong></td>
<td>“Public health antimicrobial pesticide products are those products that bear a claim to control pest microorganisms that pose a threat to human health, and whose presence cannot readily be observed by the user, including but not limited to, microorganisms infectious to man in any area of the inanimate environment.” (US EPA; <a href="https://www.epa.gov/pesticide-registration/pesticide-registration-manual-chapter-4-additional-considerations#types">https://www.epa.gov/pesticide-registration/pesticide-registration-manual-chapter-4-additional-considerations#types</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td><strong>Antimicrobial Pesticide Product, Non-Public Health</strong></td>
<td>“Non-public health antimicrobial pesticide products are those products that bear a label claim to control microorganisms of economic or aesthetic significance, where the presence of the microorganism would not normally lead to infection or disease in humans. Examples of non-public health claims would include, but are not limited to, algaecides, slimicides, preservatives and products for which a pesticidal claim with respect to odor sources is made.” (US EPA; <a href="https://www.epa.gov/pesticide-registration/pesticide-registration-manual-chapter-4-additional-considerations#types">https://www.epa.gov/pesticide-registration/pesticide-registration-manual-chapter-4-additional-considerations#types</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td><strong>Antimicrobials (Preservatives)</strong></td>
<td>A type of antimicrobial pesticide used as “a preservative (e.g., fungicide or insecticide) built in or applied as a coating only to protect the product…. In these cases, the pesticide is registered for the intended use, and the sole purpose of treatment is to protect the product itself. These pesticides are widely used in the manufacture of textiles, plastics, paper, adhesives and coatings.” (US EPA; <a href="https://www.epa.gov/safepestcontrol/consumer-products-treated-pesticides">https://www.epa.gov/safepestcontrol/consumer-products-treated-pesticides</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td><strong>Antimicrobials (Surface Pathogens)</strong></td>
<td>A type of antimicrobial pesticide intended to control microorganisms infectious to humans in any inanimate environment. The more commonly used public health antimicrobial products include the following: sterilants, sporicides, disinfectants, sanitizers, germicides. (Adapted from US EPA definition of Antimicrobial Pesticides; <a href="https://www.epa.gov/pesticide-registration/what-are-antimicrobial-pesticides">https://www.epa.gov/pesticide-registration/what-are-antimicrobial-pesticides</a>, accessed 6/3/21.) See Antimicrobial Pesticide Product, Public Health.</td>
</tr>
<tr>
<td><strong>Applicant</strong></td>
<td>An organization or entity that submits a Product Inventory for certification according to a specific GreenScreen Certified™ standard.</td>
</tr>
<tr>
<td><strong>Authorized GreenScreen Assessment</strong></td>
<td>A GreenScreen assessment completed by an Authorized GreenScreen Practitioner™ for his or her registered organization only. An Authorized assessment can be upgraded to a Certified assessment through Clean Production Action and would then qualify for use to meet a GreenScreen Certified™ standard.</td>
</tr>
<tr>
<td><strong>Authorized GreenScreen Practitioner™</strong></td>
<td>An individual who has completed advanced training in the GreenScreen method, has demonstrated scientific expertise and capacity to perform a high-quality GreenScreen assessment, and is licensed by Clean Production Action to conduct GreenScreen assessments for his or her registered organization.</td>
</tr>
<tr>
<td><strong>CASRN</strong></td>
<td>Chemical Abstracts Service Registry Number (also known as “CAS#”).</td>
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<td>TERM</td>
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<tr>
<td>Catalyst</td>
<td>Chemical compound or substance that causes or accelerates a chemical reaction without itself being affected.</td>
</tr>
<tr>
<td>Certification Level</td>
<td>One of six levels of requirements for safer chemicals in product formulations specified in the Green-Screen Certified™ Standard for Furniture &amp; Fabrics v1.0: Bronze, Bronze+, Silver, Silver+, Gold, and Gold+.</td>
</tr>
<tr>
<td>Certified GreenScreen Assessment</td>
<td>A GreenScreen assessment completed by a Licensed GreenScreen Profiler or Clean Production Action Consulting Toxicologist (including an assessment performed by an Authorized GreenScreen Practitioner and upgraded to a Certified assessment through Clean Production Action). Note: The term “Certified GreenScreen Assessment” is distinct from a GreenScreen Certified™ product. The former refers to the assessment of an individual chemical using the GreenScreen method (see <a href="https://www.greenscreenchemicals.org/assess/assess-gs-details">https://www.greenscreenchemicals.org/assess/assess-gs-details</a>). The latter refers to a product that Clean Production Action has verified to meet the GreenScreen Certified™ standard for the relevant product category and the manufacturer has signed a license agreement with Clean Production Action.</td>
</tr>
<tr>
<td>Chemical</td>
<td>See Chemical Compound.</td>
</tr>
<tr>
<td>Chemical Compound</td>
<td>A molecule (or molecular entity) composed of atoms of more than one element held together by chemical bonds and typically identified by CASRN. Synonyms used in this guidance include “chemical” or “compound.”</td>
</tr>
<tr>
<td>Chemical Inventory</td>
<td>Used to characterize chemical compounds in each homogeneous material in the product according to the required thresholds. The Chemical Inventory is achieved by: 1) attesting to the absence of specified chemicals of concern in the material using a Bronze or Silver-Gold Supplier Declaration, 2) providing a comprehensive list of chemicals present in the material, or 3) a combination of the two strategies for different materials in the product.</td>
</tr>
<tr>
<td>Chemical Substance (Substance)</td>
<td>“A chemical element and its compounds in the natural state or obtained by any manufacturing process, including any additive necessary to preserve its stability and any impurity deriving from the process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition.” (REACH Article 3(1): <a href="http://www.reachonline.eu/REACH/EN/REACH_EN/article3.html">http://www.reachonline.eu/REACH/EN/REACH_EN/article3.html</a>, accessed 6/3/21.) A chemical substance is comprised of constituents (i.e., chemical compounds and/or chemical elements), and a chemical substance can be a component within a mixture.</td>
</tr>
<tr>
<td>Minor Fastener</td>
<td>A minor fastener is a coated or uncoated fastener that is sourced from a third party and made to a generic specification (e.g., ASTM Fasteners that are made in-house, made to order, or made exclusively for a single customer are not considered commodity fasteners). (Health Product Declaration Special Condition: Minor Fasteners; <a href="https://www.hpd-collaborative.org/special-conditions">https://www.hpd-collaborative.org/special-conditions</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Flame Retardant</td>
<td>“Any chemical or chemical compound for which a functional use is to resist or inhibit the spread of fire. Flame retardant chemicals include, but are not limited to, halogenated, phosphorous-based, nitrogen-based, and nanoscale flame retardants, flame retardant chemicals listed as “designated chemicals” pursuant to Section 105440 of the Health and Safety Code, and any chemical or chemical compound for which “flame retardant” appears on the substance Safety Data Sheet (SDS) pursuant to Section 1910.1200(g) of Title 29 of the Code of Federal Regulations.” (California Senate Bill 1019; <a href="https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1019">https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1019</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Fastener</td>
<td>A hardware device that mechanically joins or affixes two or more objects together. For example: screws, nuts, bolts, staples, nails, anchors, washers, buckles, clamps, clasps, cable ties, clips, clutches, pins, hooks, latches, pegs, retaining rings, as well as ball and roller bearings; in addition, any uncoated/untreated thread or yarn used for sewing or stitching two or more fabric components together.</td>
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<td>TERM</td>
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<tr>
<td>GreenScreen Assessment</td>
<td>The assessment of an individual chemical using the GreenScreen* for Safer Chemicals method (see <a href="https://www.greenscreenchemicals.org/assess/assess-gs-details">https://www.greenscreenchemicals.org/assess/assess-gs-details</a>). An Authorized GreenScreen assessment and a Certified GreenScreen assessment are two types of GreenScreen assessments and reflect the type of assessor producing the assessment.</td>
</tr>
<tr>
<td>GreenScreen Benchmark™ Score</td>
<td>A score that is assigned to a chemical evaluated using the GreenScreen* for Safer Chemicals method. GreenScreen Benchmark scores range from 1 to 4, with each increasing Benchmark score defining progressively less hazardous chemicals. (GreenScreen Guidance and Resources; <a href="https://www.greenscreenchemicals.org/learn/full-greenscreen-method">https://www.greenscreenchemicals.org/learn/full-greenscreen-method</a>.)</td>
</tr>
<tr>
<td>GreenScreen Certified™ Certification Marks</td>
<td>The trademarked logos and phrase that may be licensed by Clean Production Action for use by a successful Applicant to describe the products that meet all of the requirements of a specified level (Bronze, Bronze+, Silver, Silver+, Gold, and Gold+) of the GreenScreen Certified™ standard for the relevant product category and as verified and approved by Clean Production Action.</td>
</tr>
<tr>
<td>GreenScreen Certified™ Reviewer</td>
<td>An organization approved by Clean Production Action to review products against the GreenScreen Certified™ standards. Reviewers also offer supply chain engagement services. Reviewers may be Licensed GreenScreen Proffilers or Licensed GreenScreen Consultants.</td>
</tr>
<tr>
<td>GreenScreen List Translator™</td>
<td>A streamlined chemical hazard assessment method developed by Clean Production Action that produces a GreenScreen List Translator score. (GreenScreen Guidance and Resources Section IV; <a href="https://www.greenscreenchemicals.org/learn/greenscreen-list-translator">https://www.greenscreenchemicals.org/learn/greenscreen-list-translator</a>.)</td>
</tr>
<tr>
<td>GreenScreen List Translator™ Score</td>
<td>A score that is assigned to a chemical screened against all GreenScreen Specified Lists (Annex 11) using GreenScreen List Translator guidance. List Translator scores include LT-1, LT-P1, LT-UNK, and NoGSLT. (GreenScreen Guidance and Resources Section IV; <a href="https://www.greenscreenchemicals.org/learn/full-greenscreen-method">https://www.greenscreenchemicals.org/learn/full-greenscreen-method</a>.)</td>
</tr>
<tr>
<td>GSC-Reviewed Certificate</td>
<td>The document awarded to applicants that have gone through the certification process but did not meet all of the Bronze or Bronze+ certification requirements (See Annex 3).</td>
</tr>
<tr>
<td>Hazardous Waste</td>
<td>Materials or substances that are regulated in the US as a federal or state hazardous waste when disposed after used for its intended purpose, where:</td>
</tr>
<tr>
<td></td>
<td><strong>1) Federal hazardous wastes</strong> are substances or materials that are “listed” as hazardous wastes (per 40 CFR Subpart D) or that meet the “characteristic” of being a hazardous waste (per 40 CFR Subpart C); or that contain materials or substances that, when disposed, are regulated by other environmental laws (CERCLA, TSCA, Nuclear Waste Policy Act); and</td>
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<td><strong>2) State hazardous wastes</strong> are substances “listed” as hazardous wastes by state regulations (e.g., 22 California Code of Regulations Appendix X) or meet the “characteristic” of hazardous waste under state toxicity criteria (e.g., 22 California Code of Regulations 66261.24, Characteristic of Toxicity).</td>
</tr>
<tr>
<td>Health Product Declaration (HPD)</td>
<td>The Health Product Declaration (HPD) Open Standard provides a framework for product manufacturers to provide information about product contents and associated health information. The HPD Open Standard is a consensus, stakeholder standard, governed by the HPD Collaborative, a not-for-profit member organization. (Health Product Declaration Collaborative; <a href="https://www.hpd-collaborative.org/hpd-open-standard-all-versions">https://www.hpd-collaborative.org/hpd-open-standard-all-versions</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Health Product Declaration Collaborative (HPDC)</td>
<td>An organization composed of, and led by, stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain. It created, maintains, and evolves the HPD Open Standard. (Health Product Declaration Collaborative; <a href="https://www.hpd-collaborative.org/hpd-open-standard-all-versions">https://www.hpd-collaborative.org/hpd-open-standard-all-versions</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Homogeneous Material (Material)</td>
<td>“One material of uniform composition throughout or a material, consisting of a combination of materials, that cannot be disjointed or separated into different materials by mechanical actions such as unscrewing, cutting, crushing, grinding and abrasive processes.” (EU Directive 2008/98/EC; <a href="https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32008L0098">https://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX%3A32008L0098</a>, accessed 6/3/21.)</td>
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<tr>
<td>TERM</td>
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<td>Impurity</td>
<td>“An unintended constituent present in a substance as manufactured. It may, for example, originate from the starting materials or be the result of secondary or incomplete reactions during the production process. While it is present in the final substance, it was not intentionally added. In most cases impurities constitute less than 10% of the substance.” (ECHA; <a href="https://echa-term.echa.europa.eu">https://echa-term.echa.europa.eu</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Intentionally Added</td>
<td>Included to serve a desired function; not an impurity.</td>
</tr>
<tr>
<td>Licensed GreenScreen Profiler</td>
<td>An organization with expertise in toxicology and comparative chemical hazard assessment that is licensed by Clean Production Action to provide GreenScreen assessments for a fee to clients. (<a href="https://www.greenscreenchemicals.org/assess/profilers">https://www.greenscreenchemicals.org/assess/profilers</a>)</td>
</tr>
<tr>
<td>Material Inventory</td>
<td>The portion of the Product Inventory Form used to characterize each homogeneous material in the product (including its parts or assemblies).</td>
</tr>
<tr>
<td>Material Function</td>
<td>A general description of what a material is used for in a product. Examples include but are not limited to adhesive, backing, binder, and filler.</td>
</tr>
<tr>
<td>Material Type</td>
<td>A broad classification of a material based on chemical makeup and atomic structure. Examples include but are not limited to metal, ceramic, polymeric material, glass, electronic, composite, nanomaterial, biological material, geological material, or waste material.</td>
</tr>
<tr>
<td>Monomer</td>
<td>“A substance which is capable of forming covalent bonds with a sequence of additional like or unlike molecules under the conditions of the relevant polymer forming reaction used for the particular process.” (REACH Article 3(6); <a href="http://www.reachonline.eu/REACH/EN/REACH_EN/article3.html">http://www.reachonline.eu/REACH/EN/REACH_EN/article3.html</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Non-Disclosure Agreement (NDA)</td>
<td>A legally binding agreement between organizations for the purpose of protecting confidential information shared during the certification process.</td>
</tr>
<tr>
<td>Organohalogen</td>
<td>A chemical containing one or more halogen atoms (typically chlorine, bromine, fluorine, or iodine) bound to a carbon atom.</td>
</tr>
</tbody>
</table>
| Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) | A class of fluorinated organic chemicals containing at least one fully fluorinated carbon atom. The class includes all structural groups defined by Buck et al, 2011, as well as all new structural groups identified by OECD in 2018. The structural groups defined by Buck et al, 2011, include:  
  a) Perfluoroalkyl substances: Substances for which all hydrogen atoms on all carbon atoms (except for carbons associated with functional groups) have been replaced by fluorine atoms;  
  b) Polyfluoroalkyl substances: Substances for which all hydrogen atoms on at least one (but not all) carbon atom have been replaced by fluorine atoms;  
  c) Fluoropolymers: Carbon-only polymer backbone with fluorine atoms directly bound;  
  d) Perfluoropolyethers: Carbon and oxygen polymer backbone with fluorine atoms directly bound to carbon atoms; and  
  e) Side-chain fluorinated polymers: Variable composition non-fluorinated polymer backbone with fluorinated side chains.  
  Additional groups defined by OECD, 2018, include perfluorinated alkanes, perfluorinated alkenes, perfluoroalkyl alcohols, perfluoroalkyl ketones, semi-fluorinated ketones, side-chain fluorinated aromatics, some hydrocarbons, hydrofluoroethers, and hydrofluoroolefins.  
<table>
<thead>
<tr>
<th><strong>TERM</strong></th>
<th><strong>DEFINITION</strong></th>
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<tbody>
<tr>
<td><strong>Part</strong></td>
<td>An optional functional grouping of contents to identify a portion of a product that is used modularly (e.g., cable, caster, chair arm). (Adapted from Health Product Declaration Open Standard 2.1; <a href="https://www.hpd-collaborative.org/hpd-open-standard-all-versions">https://www.hpd-collaborative.org/hpd-open-standard-all-versions</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td><strong>Polymer Mixture</strong></td>
<td>A mixture comprised of a polymer substance and unreacted monomer(s).</td>
</tr>
</tbody>
</table>
| **Polymer Species** | "Molecules characterized by the sequence of one or more types of monomer units. Such molecules must be distributed over a range of molecular weights wherein differences in the molecular weight are primarily attributable to differences in the number of monomer units. Polymer species comprise the following: (a) a simple weight majority (i.e., 50%) of molecules containing at least three monomer units which are covalently bound to at least one other monomer unit or other reactant; or (b) less than a simple weight majority of molecules of the same molecular weight."
In the context of this definition a "monomer unit" means the reacted form of a monomer in a polymer." (REACH, Article 3(5); [http://www.reachonline.eu/REACH/EN/REACH_EN/article3.html](http://www.reachonline.eu/REACH/EN/REACH_EN/article3.html), accessed 6/3/21.) |
<p>| <strong>Polymer Substance</strong> | A substance comprised of constituents: polymer species, additives necessary to preserve stability, and impurities deriving from the manufacturing process used, but excluding any solvent which may be separated without affecting the stability of the substance or changing its composition. (Based on REACH Article 3(1); <a href="http://www.reachonline.eu/REACH/EN/REACH_EN/article3.html">http://www.reachonline.eu/REACH/EN/REACH_EN/article3.html</a>, accessed 6/3/21.) |
| <strong>Polymeric Material</strong> | A mixture of one or more polymer substance(s) or polymer mixture(s), all other additives (i.e., intentionally added substances), and unintentional impurities. |
| <strong>Polymeric Material Impurities</strong> | Impurities imparted to the polymeric material from a source other than the intentionally added components. |
| <strong>Post-Consumer Recycled Content</strong> | &quot;Waste material generated by households or by commercial, industrial and institutional facilities in their role as end-users of the product, which can no longer be used for its intended purpose.&quot; (US Green Building Council; <a href="https://www.usgbc.org/credits/schools-nc/v2007/mrc4">https://www.usgbc.org/credits/schools-nc/v2007/mrc4</a>, accessed 6/3/21.) |
| <strong>Powder Coat</strong> | A surface coating applied to the product via powder delivery systems (e.g., electrostatic spray coating or dip coating), followed by a curing/drying step which melts the powder and forms a continuous coating on the metal furniture component or product. (Adapted from US EPA; <a href="https://www3.epa.gov/airquality/ctg_act/200709_voc_epa453_r-07-005_metal_furniture_coating.pdf">https://www3.epa.gov/airquality/ctg_act/200709_voc_epa453_r-07-005_metal_furniture_coating.pdf</a>, accessed 6/3/21.) |
| <strong>Primary Packaging</strong> | The layer of packaging in immediate contact with the product. |
| <strong>Product</strong> | A finished good composed of parts, homogeneous materials, and/or chemical substances. A product may function as part of another product. A product may be made of one or more homogeneous materials. |
| <strong>Product Inventory Form</strong> | A form for listing the product contents for each product being certified. The Product Inventory Form consists of a Material Inventory and a Chemical Inventory. See form instructions and tables for additional required information. |
| <strong>Product Review Report</strong> | The checklist and/or form used by Clean Production Action and/or GreenScreen Certified™ Reviewers to document evaluation of a product for compliance with all GreenScreen Certified™ standard requirements. |
| <strong>Proprietary Ingredient</strong> | An ingredient in a product that is confidential to the manufacturer or producer. |</p>
<table>
<thead>
<tr>
<th><strong>TERM</strong></th>
<th><strong>DEFINITION</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Recyclable</td>
<td>“A product or package is recyclable if it can be collected, separated, or otherwise recovered from the waste stream through an established recycling program for reuse or use in manufacturing or assembling another item, with recycling facilities for the item available to at least 60 percent of communities where the item is sold.” (FTC Regulation; <a href="https://www.ftc.gov/sites/default/files/attachments/press-releases/ftc-issues-revised-green-guides/greenguides.pdf">https://www.ftc.gov/sites/default/files/attachments/press-releases/ftc-issues-revised-green-guides/greenguides.pdf</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Recycled Content</td>
<td>“Refers to the portion of materials used in a product that have been diverted from the solid waste stream. If those materials are diverted during the manufacturing process, they are referred to as pre-consumer recycled content (sometimes referred to as post-industrial). If they are diverted after consumer use, they are post-consumer.” (Building Green; <a href="https://www.buildinggreen.com/primer/defining-recycled-content">https://www.buildinggreen.com/primer/defining-recycled-content</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Residual Monomer</td>
<td>An unintended impurity in a polymer substance. (GreenScreen Guidance and Resources; <a href="https://www.greenscreenchemicals.org/learn/full-greenscreen-method">https://www.greenscreenchemicals.org/learn/full-greenscreen-method</a>.)</td>
</tr>
<tr>
<td>Secondary Packaging</td>
<td>Protects the product and the primary packaging. An example of secondary packaging is a cardboard box or plastic crate containing multiple products in primary packaging.</td>
</tr>
<tr>
<td>Siloxanes</td>
<td>“Siloxanes, often also described as silicones, are molecules with an oxygen–silicon backbone (Si–O–Si), where each silicon atom carries two organic groups, mostly methyl, ethyl, or phenyl groups. Depending on their molecular weight, siloxanes can be characterized as linear or cyclic volatile methylsiloxanes, polydimethylsiloxanes (PDMS), or polyethermethylsiloxanes (PEMS).” (Fromme Hermann. Cyclic Volatile Methylsiloxanes: Occurrence and Exposure. Reference Module in Earth Systems and Environmental Sciences. 2018. (<a href="https://www.sciencedirect.com/topics/medicine-and-dentistry/siloxane">https://www.sciencedirect.com/topics/medicine-and-dentistry/siloxane</a>, accessed 6/3/21.)</td>
</tr>
<tr>
<td>Substance Impurity</td>
<td>An impurity of a chemical substance or polymer substance, such as a residual catalyst. See also “Impurity.”</td>
</tr>
<tr>
<td>Supplier Declaration</td>
<td>The attestation form(s) used in the GreenScreen Certified™ Standard for Furniture &amp; Fabrics to verify specific certification claims. See Section 9 Documentation Requirements for a list of the specific Supplier Declaration forms.</td>
</tr>
<tr>
<td>Unreacted Monomer</td>
<td>An intended component in a polymer mixture. (GreenScreen Guidance and Resources; <a href="https://www.greenscreenchemicals.org/learn/full-greenscreen-method">https://www.greenscreenchemicals.org/learn/full-greenscreen-method</a>.)</td>
</tr>
<tr>
<td>Valid GreenScreen Assessment</td>
<td>A GreenScreen assessment report that is not expired or been superseded. See GreenScreen Terms of Use for details.</td>
</tr>
</tbody>
</table>
CERTIFICATION REQUIREMENTS

5. PRODUCT INVENTORY

The Product Inventory includes a Material Inventory and a Chemical Inventory. The Chemical Inventory requirements shall be met through attesting to the absence of specified chemicals of concern in the material, providing a comprehensive list of chemicals present in the material, or a combination of the two strategies for different materials in the product. Chemical Inventory requirements vary by certification level.

Refer to Table 1 below for a summary of requirements for the Product Inventory for each certification level. Follow the section hyperlink for detailed requirements. See also Section 7 Certification Amendments for information on any criteria modifications for specific material types, as applicable to the product undergoing certification.

<table>
<thead>
<tr>
<th>TABLE 1: Product Inventory Summary of Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section</strong></td>
</tr>
<tr>
<td>--------------</td>
</tr>
<tr>
<td>Material Inventory</td>
</tr>
<tr>
<td>Chemical Inventory</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
5.1 Material Inventory Requirements

A Material Inventory is required for application to the GreenScreen Certified Standard for Furniture & Fabrics program and is a requirement for Bronze, Bronze+, Silver, Silver+, Gold, and Gold+ levels of Certification. Each Material Inventory must:

5.1.1 Identify 100% by mass of the homogeneous materials in the product; and

5.1.2 List the following information for each homogeneous material in the product:

1. MATERIAL IDENTIFIER (trade name(s) and/or metal alloy grade/UNS # for each material in the product; include part number(s) for assemblies),
2. MATERIAL SUPPLIER (include alternate suppliers if materials are used interchangeably),
3. MATERIAL TYPE (i.e., metal (non-fastener), minor fastener, colorant, ceramic, polymeric material, composite wood, glass, paper, electronic component, nanomaterial, biological material, geological material, or recycled content),
4. MATERIAL FUNCTION in product (e.g., fasteners, adhesive, backing, binder, filler),
5. MATERIAL COLOR or COATING description (e.g., include a description such as "coated with powder coat GHTD-BLK Black-gloss"), and
6. MATERIAL PERCENT (%) BY MASS in product (must add to 100.00%). OPTIONAL: include mass of the material in relevant units if preferred over percent by mass.

5.2 Chemical Inventory Requirements

The Chemical Inventory requirements shall be met through attesting to the absence of specified chemicals of concern in the material using a Bronze or Silver-Gold Supplier Declaration, providing a comprehensive list of chemicals present in the material, or a combination of the two strategies for different materials in the product. Chemical Inventory requirements vary by certification level, and are described for each level below.

5.2.1 Bronze Chemical Inventory Requirements

1. The Applicant or its supplier(s) must submit a signed Bronze Supplier Declaration for each material in the product for a total of at least 95% by mass of materials in the product.

5.2.2 Bronze+ Chemical Inventory Requirements

1. The Applicant or its supplier(s) must submit a signed Bronze Supplier Declaration for each material in the product for a total of 100% by mass of materials in the product.

---

1 For products with multiple parts or assemblies, each homogeneous material in each part and/or each assembly must be included in the Material Inventory.
2 Biological and geological materials often contain treatments and/or additives such as binders, coatings, and finishes that must be inventoried separate from the biological or geological material. For biological materials list the Genus name and species name. For geological materials, list the Series or Group name and all other information known about the material.
3 Colorants and coatings, finishes and/or metal plating on any material type must be listed as separate homogeneous materials in the Material Inventory.
4 Which tier of supplier signs the declaration depends on the level of knowledge of the material itself. In general, the supplier with the most transparent visibility into the chemical composition of the material is required to sign the declaration.
5.2.3 Silver and Gold Chemical Inventory Requirements

1. The Applicant or its supplier(s) must submit a Comprehensive List of Chemicals (See Section 5.3.2) for each material totaling at least 95% by mass of materials in the product; and

2. The Applicant or its supplier(s) must submit a signed Silver-Gold Supplier Declaration for each remaining material in the product for a maximum total of 5% by mass of materials in the product.

5.2.4 Silver+ and Gold+ Chemical Inventory Requirements

1. The Applicant or its supplier(s) must submit a nested Comprehensive List of Chemicals (See Section 5.3.2) for each material in the product totaling 100% by mass of materials in the product.

5.3 Product Inventory Documentation Requirements

5.3.1 Attestation by Supplier Declaration: The Applicant or its supplier(s) must submit a signed Supplier Declaration for each material in the product for the required % by mass of materials in the product (i.e., 100%, 95%, or 5%). The Supplier Declaration attests to the absence of the specified chemicals of concern in the material above the specified thresholds.

5.3.2 Comprehensive List of Chemicals: The Applicant or its supplier(s) must submit a nested list of each chemical compound (intentionally added or impurity) present at or above 0.01% by mass (100 ppm) in the material for each material totaling the required % by mass of materials in the product (i.e., 0%, 95%, or 100%). Inventories shall include the following information:

1. ADDITIVE TRADE NAME of 100% of the additive(s) in the material (required for mixtures and polymers),

2. ADDITIVE SUPPLIER NAME of each additive(s) in the material,

3. ADDITIVE FUNCTION (i.e., the specific function of the additive in the material),

4. ADDITIVE PERCENT BY MASS (%) for each additive in the material,

5. CHEMICAL NAME and CASRN of each chemical in the additive (must list residual monomers and catalysts for polymers),

6. CHEMICAL PERCENT BY MASS (%) for each chemical in the additive,

7. INTENTIONALLY ADDED SUBSTANCE ROLE of each chemical(s) in the additive (e.g., stabilizer, pigment, dye, plasticizer, flame retardant, corrosion inhibitor, biocide, lubricant, etc.), and

8. IMPURITIES DESCRIPTION (Must include separate rows for monomers and catalyst impurities in polymeric materials).

---

5 Note: Applicants can redact chemical name and CASRN only if accompanied by a valid GreenScreen assessment. Where hazard scores are used for redacted chemical name(s), the name of the assessor and date of assessment must be provided along with a traceable alphanumeric ID number.
6. GREENSCREEN HAZARD EVALUATION

The Product Inventory completed in Section 5 will be used to evaluate the product using Restricted Substances List screening, List Translator screening, and/or assessment using GreenScreen for Safer Chemicals, depending on the certification level. Refer to Table 2 below for a summary of GreenScreen hazard evaluation requirements across certification levels. Follow the section hyperlink for detailed guidance on each requirement.

<table>
<thead>
<tr>
<th>Section</th>
<th>Requirement</th>
<th>Certification Levels</th>
<th>Bronze</th>
<th>Bronze+</th>
<th>Silver</th>
<th>Silver+</th>
<th>Gold</th>
<th>Gold+</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSL Screening</td>
<td>No Bronze RSL chemicals</td>
<td>95%</td>
<td>✓</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td></td>
<td>No Silver-Gold RSL chemicals</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>List Translator Screening</td>
<td>No LT-1 chemicals</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>GreenScreen Assessment</td>
<td>No Benchmark-1 chemicals</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>95%</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Analytical Testing</td>
<td>Total Fluorine for each fabric</td>
<td></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Note: The percentage or check mark shown in Table 2 represents the mass percent of the materials in the product that require RSL screening, List Translator screening, or GreenScreen assessment. The check mark means 100%.

6.1 Screening against Restricted Substances List (RSL)

All levels of certification require screening each homogeneous material in the product and the product itself against one or more restricted substances lists (RSLs). The screening method used for a homogeneous material is dependent on the type of Chemical Inventory required (See Section 5.2). Screening against an RSL is achieved either by reviewing a comprehensive list of all chemicals in the homogeneous material, or reviewing a Supplier Declaration for the homogeneous material. Products must meet one of the following requirements:

6.1.1 Bronze and Bronze+ levels: Supplier declarations are used to verify compliance against the Bronze RSL in Table 3. The product must meet all detailed RSL requirements for each chemical group listed in Table 3.

6.1.2 Silver and Gold levels: A combination of Supplier Declaration(s) and a comprehensive list of chemicals is used to verify compliance with the Bronze RSL in Table 3 and the Silver-Gold RSL in Table 4. The product must meet all detailed RSL requirements for each chemical group in Tables 3 and 4.

6.1.3 Silver+ and Gold+ levels: A comprehensive list of chemicals is used to verify compliance with the Bronze RSL in Table 3 and the Silver-Gold RSL in Table 4. The product must meet all detailed RSL requirements for each chemical group in Tables 3 and 4.
### TABLE 3: BRONZE Restricted Substances List (RSL) Summary

<table>
<thead>
<tr>
<th>Chemical Group</th>
<th>Product Threshold</th>
<th>Material Threshold</th>
<th>Detailed RSL Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>European Union Restriction of Hazardous Substances (EU RoHS) Directive (Electronics)</td>
<td>N/A</td>
<td>Per regulation, excluding exemptions</td>
<td>Annex 4, Section A4.1</td>
</tr>
<tr>
<td>Bisphenols (Bronze List)</td>
<td>N/A</td>
<td>1000 ppm</td>
<td>Annex 4, Section A4.2</td>
</tr>
<tr>
<td>Polyvinyl Chloride (PVC)</td>
<td>1000 ppm</td>
<td>N/A</td>
<td>Annex 4, Section A4.3</td>
</tr>
<tr>
<td>Flame Retardants (Non-electronic)</td>
<td>N/A</td>
<td>1000 ppm</td>
<td>Annex 4, Section A4.4</td>
</tr>
<tr>
<td>Halogenated Flame Retardants (Electronics)</td>
<td>N/A</td>
<td>1000 ppm</td>
<td>Annex 4, Section A4.5</td>
</tr>
<tr>
<td>Ortho-phthalates (Bronze List)</td>
<td>N/A</td>
<td>1000 ppm</td>
<td>Annex 4, Section A4.6</td>
</tr>
<tr>
<td>California Proposition 65 Chemicals</td>
<td>Below labeling requirement</td>
<td>N/A</td>
<td>Annex 4, Section A4.7</td>
</tr>
<tr>
<td>Antimicrobials (Surface Pathogens)</td>
<td>N/A</td>
<td>0 ppm (see exemption in Annex 9)</td>
<td>Annex 4, Section A4.8</td>
</tr>
<tr>
<td>Antimicrobials (Preservatives)</td>
<td>0 ppm</td>
<td>N/A</td>
<td>Annex 4, Section A4.9</td>
</tr>
<tr>
<td>Persistent, Bioaccumulative, and Toxic Chemicals (PBTs)</td>
<td>N/A</td>
<td>1000 ppm</td>
<td>Annex 4, Section A4.10</td>
</tr>
<tr>
<td>Metals and their Compounds (Non-Electronic): Cadmium, Lead, Mercury, Organotin, and Antimony</td>
<td>N/A</td>
<td>Lead 40 ppm; Mercury 100 ppm; Cadmium 100 ppm; Tin 100 ppm; Antimony 0.2 mg/kg</td>
<td>Annex 4, Section A4.11</td>
</tr>
<tr>
<td>Per- and Polyfluoroalkyl Substances (PFAS)</td>
<td>N/A</td>
<td>100 ppm</td>
<td>Annex 4, Section A4.12</td>
</tr>
<tr>
<td>Azo Dyes per Entry 43 of Annex XVII of Regulation (EC) 1907/2006</td>
<td>N/A</td>
<td>Per regulation</td>
<td>Annex 4, Section A4.13</td>
</tr>
</tbody>
</table>

Note: Each chemical group on the RSL has either a material threshold or a product threshold specified, but not both. Product level thresholds apply to the sum of the mass of the chemical in each homogeneous material divided by the total mass of the product.

### TABLE 4: SILVER-GOLD Restricted Substances List (RSL) Summary

<table>
<thead>
<tr>
<th>Chemical Group</th>
<th>Material Threshold</th>
<th>Detailed RSL Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenols (Silver-Gold)</td>
<td>100 ppm</td>
<td>Annex 4, Section A4.14</td>
</tr>
<tr>
<td>Ortho-phthalates (Silver-Gold)</td>
<td>100 ppm</td>
<td>Annex 4, Section A4.15</td>
</tr>
<tr>
<td>Alkylphthalates and Alkylphenol Ethoxylates</td>
<td>100 ppm</td>
<td>Annex 4, Section A4.16</td>
</tr>
<tr>
<td>Cyclic Volatile Methyl Siloxanes (cVMS)</td>
<td>100 ppm</td>
<td>Annex 4, Section A4.17</td>
</tr>
<tr>
<td>ZDHC Manufacturing Restricted Substances List (MRSL) Version 2.0</td>
<td>Variable</td>
<td>Annex 4, Section A4.18</td>
</tr>
<tr>
<td>Organohalogens</td>
<td>100 ppm</td>
<td>Annex 4, Section A4.19</td>
</tr>
<tr>
<td>GreenScreen List Translator LT-1</td>
<td>100 ppm</td>
<td>Annex 4, Section A4.20</td>
</tr>
</tbody>
</table>
6.2 Analytical Testing Requirement for Total Fluorine in Fabric

Given the widespread use of per- and poly-fluorinated alkyl substances (PFAS) in fabrics, all levels of certification require fabric to be tested for total fluorine. All fabrics must meet the total fluorine requirements specified below. These requirements apply whether the product being reviewed for certification is a fabrics or a piece of furniture made with fabric.

6.2.1 If none of the assets (equipment) used to produce the fabric in the product under review for certification have any contact with PFAS at any time (i.e., production uses completely dedicated assets only), Applicant must meet Level 1 Total Fluorine Testing Requirements.

6.2.2 If one or more of the assets used to produce the product under review for certification have any contact with PFAS at any time, Applicant must meet the Level 1 and Level 2 Total Fluorine Testing Requirements.

6.2.3 Total fluorine testing of all required samples shall verify total fluorine content is < 0.01% by mass (100 ppm).

6.2.4 Total fluorine shall be determined by Combustion Ion Chromatography or Combustion followed by Ion Selective Electrode. Test method detection limit must be 0.005% by mass (50 ppm) or lower.

6.2.5 Testing laboratories are approved by Clean Production Action. Clean Production Action provides the applicants with information necessary to submit samples for testing. Threshold exceedances due to naturally occurring fluorine may be accepted if the Applicant provides sufficient analytical testing data demonstrating the source is not from a fluorinated chemical.

6.2.6 Level 1 Total Fluorine Testing Requirements: During the certification process, total fluorine testing of each fabric is required on three samples from three different production lots, runs, or batches. For applicants subject to both Level 1 and Level 2 Total Fluorine Testing Requirements, each of the three samples required for Level 1 shall be from the very start of a different run that was directly preceded by assets being used to produce PFAS-containing products.

6.2.7 Level 2 Total Fluorine Testing Requirements for each fabric:

6.2.7.1 Applicant collects an attestation from the fabric manufacturer that all manufacturing facilities that make the fabric have robust procedures in place to minimize contamination from production of PFAS-containing products to ensure every fabric product meets the requirement of < 100 ppm total fluorine. These procedures at a minimum must include cleaning protocols for changeovers from production of PFAS-containing products to PFAS-free products, validation, sampling and testing protocols, and corrective actions. Contamination may result from shared equipment, shared recycling of process chemicals, or use of recycled raw materials.

6.2.7.2 During the duration of a valid certification, total fluorine testing of the fabric is required on three samples per quarter (three month period) from each manufacturing facility. Each of the samples shall be from the very start of a different run that was directly preceded by assets being used to produce PFAS-containing products. Analytical test results verifying the product contains < 100 ppm total fluorine shall be submitted to Clean Production Action once per year during annual renewal.

6.2.7.3 Throughout the duration of a valid certification, Clean Production Action shall be immediately informed if any fabric sample contains ≥ 100 ppm total fluorine.
6.3 **Screening with GreenScreen List Translator™**

6.3.1 GreenScreen List Translator scores are required for each chemical in the Product Inventory for the Silver, Silver+, Gold, and Gold+ levels of certification. Only List Translator scores of LT-P1, LT-UNK, and/or NoGSLT are permitted in certified products. No LT-1 scores are permitted in certified products.7

6.3.2 For each material with a Comprehensive List of Chemicals, each chemical present at or above 100 ppm in the material is screened by CASRN using the automated GreenScreen List Translator databases.8

6.3.3 For each material with a Silver-Gold Supplier Declaration, the supplier must attest that the material does not contain any LT-1 chemicals present at or above 100 ppm in the material.

6.4 **Assessment with GreenScreen® for Safer Chemicals (GreenScreen)**

6.4.1 GreenScreen assessments9 are required for the Gold, and Gold+ levels of certification: Chemical substances assigned a score of Benchmark-1, Benchmark-1TP, or Benchmark-1CoHC are not permitted in Gold certified products.10

6.4.2 For Gold, each chemical substance in 95% by mass of the materials in the product and present in the material at or above 100 ppm is assessed with GreenScreen.

6.4.3 For Gold+, each chemical substance in 100% of the materials in the product and present in the material at or above 100 ppm is assessed with GreenScreen.

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7 No GreenScreen Benchmark-1 scores are permitted in assessed materials of certified products, where there is a freely and publicly available GreenScreen assessment.

8 Clean Production Action screens each entry in the Product Inventory using GreenScreen List Translator. An Applicant may wish to perform an optional pre-screen of chemicals in the Product Inventory to determine if any have a GreenScreen List Translator score of LT-1 before applying to the program. Online tools that provide automation for GreenScreen List Translator scoring include Pharos (no cost) and toxnot (no cost). See the GreenScreen website for a list of Licensed GreenScreen List Translator™ Automators.

9 An Applicant may use valid Certified GreenScreen assessment(s) obtained either through public databases or through commissioning an assessment. New Certified GreenScreen assessments are generated (typically by a Licensed GreenScreen Profiler) for all remaining substances. Authorized assessments generated by Authorized GreenScreen Practitioners and upgraded to Certified assessments through Clean Production Action qualify for use in the GreenScreen Certified program.

10 For GreenScreen Benchmark-U, filling data gaps with the “worst-case” hazard level must result in a GreenScreen Benchmark score that fulfills the certification level requirements.
7. CERTIFICATION AMENDMENTS

7.1 Minor Fasteners [Bronze, Bronze+, Silver, and Silver+ Levels of Certification]

7.1.1 Scope

This certification amendment applies to coated or uncoated commodity fasteners including screws, nuts, bolts, staples, nails, anchors, washers, buckles, clamps, clasps, cable ties, clips, clasps, pins, hooks, latches, pegs, retaining rings ball and roller bearings, and sewing thread.11

The following types of materials are outside the scope of this amendment and must meet the Product Inventory and hazard screening requirements outlined in Section 5 and Section 6, respectively:

1. Gaskets, grommets, adhesives, adhesive tapes.
2. Any coating, finish, or metal plating that is a) custom (e.g., made to order or exclusively produced for a single customer), or b) applied to the fastener during Applicant product manufacturing.
3. Any fastener that is: a) custom (e.g., made to order or exclusively produced for a single customer), or b) manufactured during Applicant product manufacturing.

7.1.2 Amendment

The Chemical Inventory requirements in Section 5.2 are waived for all commodity fasteners up to a total of 1% by mass of the product. Applicants shall instead provide attestation of compliance with GreenScreen Certified certification requirements by using the “Commodity Fastener Supplier Declaration,” which includes attestation for:

1. Material Inventory. See Section 5.1 for requirements;
2. Restricted Substances. The commodity fastener shall comply with the following material restrictions:12
   • Lead (Pb): < 1000 ppm
   • Mercury (Hg): < 1000 ppm
   • Cadmium (Cd): < 100 ppm
   • Hexavalent Chromium: (Cr VI) < 1000 ppm
   • Polybrominated Biphenyls (PBB): < 1000 ppm
   • Polybrominated Diphenyl Ethers (PBDE): < 1000 ppm
   • Bis(2-Ethylhexyl) phthalate (DEHP): < 1000 ppm
   • Benzyl butyl phthalate (BBP): < 1000 ppm
   • Dibutyl phthalate (DBP): < 1000 ppm
   • Diisobutyl phthalate (DIBP): < 1000 ppm

11 Brass keys shall be exempt from all certification requirements.
12 This list of chemicals is aligned with Annex II of EU Directive 2015/863, which amends Article 4 of the RoHS Directive (2011/65/EU).
3. **EU REACH SVHC Content.** The commodity fastener shall not contain any EU REACH Substances of Very High Concern (SVHCs) at levels above 0.1%, and shall be compliant with all relevant restrictions of Annex XVII. The date on which the list of SVHCs is referenced should be noted, and should be the most currently available list at the date the Commodity Fastener Supplier Declaration Form is signed.

### 7.1.3 Rationale

Commodity fasteners are often purchased from distributors, who may source the item from multiple vendors, therefore sourcing may shift frequently, and chemical composition information can be difficult to obtain. Complete Chemical Inventory information meeting the requirements of Section 5.2 is often very difficult to obtain for commodity fasteners. These amended certification requirements are intended to address the relevance to toxic chemicals that may be present in commodity fasteners, as well as the broad availability of this information in the supply chain. RoHS restricts many toxic metals and flame retardants that could be present in commodity fasteners. Due to demand from the electronics industry, a large volume of RoHS compliant fasteners are available on the market. Under REACH regulations, there is an obligation to alert the supply chain if an article contains over 0.1% by mass of a Substance of High Concern (SVHC).
7.2 **Undefined Post-Consumer Recycled Content [All Levels of Certification]**

7.2.1 **Scope**

This certification amendment applies to undefined post-consumer recycled (PCR) content in homogeneous materials and does not apply to recycled metal or recycled glass. Due to variability in sourcing of this material type, it is difficult or impossible to obtain a comprehensive inventory of each chemical in the material including impurities above the specified thresholds (100 ppm or RSL threshold).

Adherence to the GreenScreen Hazard Evaluation requirements cannot be determined without a Chemical Inventory for the recycled material.

7.2.2 **Bronze and Bronze+ Level Amendments**

The Chemical Inventory requirements are waived for undefined post-consumer recycled content up to a total of 25% by mass of the product for the Bronze and Bronze+ levels. Applicants shall instead provide attestation of compliance with GreenScreen Certified certification requirements by using the “Undefined Recycled Content Supplier Declaration”, which includes attestation for:

1. **Material Inventory.** See Section 5.1 for requirements, and

2. **Restricted Substances.** The material containing undefined post-consumer recycled content shall comply with the following material restrictions:13
   - Lead (Pb): < 1000 ppm
   - Mercury (Hg): < 1000 ppm
   - Cadmium (Cd): < 100 ppm
   - Hexavalent Chromium: (Cr VI) < 1000 ppm
   - Polybrominated Biphenyls (PBB): < 1000 ppm
   - Polybrominated Diphenyl Ethers (PBDE): < 1000 ppm
   - Bis(2-Ethylhexyl) phthalate (DEHP): < 1000 ppm
   - Benzyl butyl phthalate (BBP): < 1000 ppm
   - Dibutyl phthalate (DBP): < 1000 ppm
   - Diisobutyl phthalate (DIBP): < 1000 ppm

7.2.3 **Silver, Silver+, Gold, or Gold+ Level Amendments**

1. Applicants shall meet the Bronze or Bronze+ level amendment in Section 7.2.2 above; and

2. **Analytical Testing.** Each material that contains undefined post-consumer recycled content shall meet the analytical testing requirements outlined in Table 5 below. The frequency of testing must be sufficient to capture potential variability in different batches of materials. The Applicant shall submit a test report.

---

### TABLE 5: SILVER-GOLD Testing Requirements for Undefined Recycled Content

<table>
<thead>
<tr>
<th>Tested substances</th>
<th>Material Threshold (PPM)</th>
<th>Test Method(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lead (Pb)</td>
<td>1000</td>
<td>• X-Ray Fluorescence Spectroscopy (XRF), as per ASTM F2617,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fourier Transform Infra-red Spectroscopy (FTIR), or</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Scanning Electron Microscope (SEM) testing(^\text{14})</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>Cadmium (Cd)</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Hexavalent Chromium: (Cr VI)</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>Polybrominated Biphenyls (PBB)</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>Polybrominated Diphenyl Ethers (PBDE)</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>Hexabromocyclododecane (HBCD)</td>
<td>1000</td>
<td>Gas chromatography (GC) or high-performance liquid chromatography (HPLC) with</td>
</tr>
<tr>
<td></td>
<td></td>
<td>mass spectroscopy(^\text{15})</td>
</tr>
<tr>
<td>Bis(2-Ethylhexyl) phthalate (DEHP)</td>
<td>1000</td>
<td>Gas chromatography coupled with mass spectrometry (GC/MS) or coupled with</td>
</tr>
<tr>
<td></td>
<td></td>
<td>flame ionization detection (GC/FID)(^\text{16})</td>
</tr>
<tr>
<td>Benzyl butyl phthalate (BBP)</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>Dibutyl phthalate (DBP)</td>
<td>1000</td>
<td></td>
</tr>
<tr>
<td>Diisobutyl phthalate (DIBP)</td>
<td>1000</td>
<td></td>
</tr>
</tbody>
</table>

\(^{14}\) Source for test methods as per RoHS Directive are summarized here: [https://www.rohsguide.com/rohs-testing.htm](https://www.rohsguide.com/rohs-testing.htm). Other analytical methods can be considered on a case by case basis if the method employs good laboratory practices by an accredited lab with adequate detection limits.

\(^{15}\) Source for test method as per Law et. al., “Hexabromocyclododecane Challenges Scientists and Regulators,” Environmental Science and Technology, 2005.

\(^{16}\) Source for test methods as per RoHS Directive are summarized here: [https://www.rohsguide.com/rohs-testing.htm](https://www.rohsguide.com/rohs-testing.htm). Other analytical methods can be considered on a case by case basis if the method employs good laboratory practices by an accredited lab with adequate detection limits.
7.3 **Electronic Components [All Levels of Certification]**

7.3.1 **Scope**

This Product Inventory amendment applies to electronic components.

7.3.2 **Amendments**

The Chemical Inventory requirements in Section 5.2 are waived for all electronic components in the product. Applicants shall instead provide attestation of compliance with the GreenScreen Certified certification requirements by using the “Electronic Component Supplier Declaration”, which includes attestation for:

1. **Material Inventory.** To the extent practical for electronic components, follow the Material Inventory requirements outlined in Section 5.1 for external cases, housings, and other identifiable elements; and

2. **RSL Conformance.** The electronic component shall comply with the following sections of the GreenScreen Certified Restricted Substances List applicable to electronics:
   a) A4.1 EU RoHS Directive (Electronics) and
   b) A4.5 Halogenated Flame Retardants (Electronics).

7.3.3 **Rationale**

Electronic components are complex parts containing many materials and chemicals that are challenging to track down from often complicated supply chains. Therefore, a Chemical Inventory is difficult to obtain. Where a full Chemical Inventory and a GreenScreen List Translator or GreenScreen assessment may be difficult or impossible to achieve for electronic components, these amended certification requirements are intended to address the relevance to toxic chemicals that may be present as well as the broad availability of this information in the supply chain. RoHS restricts many toxic metals and flame retardants that could be present in electronic components, so due to demand from the electronics industry, a large volume of RoHS compliant electronics is available on the market.

7.4 **PTFE in Powder Coats [Bronze and Bronze+ Levels of Certification]**

7.4.1 **Scope**

Polytetrafluoroethylene (PTFE) is a very common additive in powder coats. PTFE is added for lubricity and to provide a uniform texture. Per and polyfluoroalkyl substances (PFAS) including PTFE are prohibited in certified products by inclusion on the Bronze RSL.

7.4.2 **Amendment**

This RSL amendment allows the use of PTFE in powder coat for the Bronze and Bronze+ levels of certification. This amendment acknowledges the limited availability of PFAS-free powder coats at this time, thereby providing powder coat manufacturers’ time to increase offerings of PFAS-free powder coats and for furniture manufacturers to transition to PFAS-free powder coats. This is a temporary amendment that will be removed once PTFE-free powder coats are more readily available.
7.5 Metal Parts [Silver and Silver+ Levels of Certification]

7.5.1 Scope

This RSL amendment applies to specific alloy elements in product parts made of metal alloys. Minor fasteners made of metal are covered in Section 7.1 and not covered by this RSL amendment.

The metals listed below are present on the Silver-Gold Restricted Substances List or have been assessed and have been assigned a score of Benchmark-1 in the elemental form:

- Aluminum (Al)
- Antimony (Sb)
- Beryllium (Be)
- Cobalt (Co)
- Nickel (Ni)
- Silver (Ag)
- Vanadium (V)

7.5.2 Amendment

Al, Sb, Be, Co, Ni, Ag, and V metals are allowed in certified products for the Silver level of certification when the metals are a part of the alloy crystallites in a true alloy such as steel. In a true alloy, substances present in the alloy are integral parts of the alloy (i.e., part of the alloy crystallites as opposed to being present between the crystallites).
7.6 Specified Chemicals with Form-Specific Hazards [All Levels of Certification]

7.6.1 Scope

The form-specific hazard amendment applies to the substances listed in Table 6, where the hazard is specific to unbound particles of respirable size (<10 micrometers). The toxicity of chemicals with form-specific hazards is defined as adverse effects limited to the respiratory tract, characterized as the nasal and oral cavities, pharynx, larynx, trachea, bronchi, and lungs, following inhalation exposure.17

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CASRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
</tr>
<tr>
<td>Cristobalite</td>
<td>14464-46-1</td>
</tr>
<tr>
<td>Tridymite</td>
<td>15468-32-3</td>
</tr>
<tr>
<td>Tripoli</td>
<td>1317-95-9</td>
</tr>
</tbody>
</table>

7.6.2 Amendment

The amendment allows the use of the specified chemicals in certified products provided the requirements are met.

7.6.3 Requirements

1. Powder

The substances listed in Table 6 that are found in materials sold in powder form must meet the following requirements:

a) A certificate of analysis from a qualified laboratory must be submitted and show the product’s particle size distribution,18 and

b) Products containing chemicals listed in Table 6 that are present above 0.01% by mass (100 ppm) in airborne, unbound particles of respirable size (i.e., less than 10 micrometers in diameter) do not qualify for certification under this standard.

18 The particle size distribution (D0.01, D10, D50, D90) must be reported. This measure refers to the diameter sizes for which 0.01%, 10%, 50%, and 90% of particles, respectively, have diameters less than. Respirable particles have aerodynamic diameters < 10 micrometers. Therefore, the proportion of particles with diameters < 10 micrometers in a given product must be restricted in order to limit the potential for respiration. The D0.01 must be less than 10 micrometers for products or materials sold in powdered form to qualify for certification (i.e., 0.01% of the particulates have diameters less than 10 micrometers). This requirement can be demonstrated in a sieving assessment report or certification of analysis or technical data sheet presenting the sieving distribution for the product.
2. Liquid or Non-Powder Solid

The substances listed in Table 6 that are found in materials sold as liquids or non-powder solids (e.g., paints, joint compounds, abrasives, and fillers) are acceptable for use in certified products provided that the substance does not volatilize, leach, emit, or abrade from the liquid or bulk material in the particle size and physical form of concern in normal use for the lifetime of the product.

7.6.4 Warning

All certified products that meet the requirements of Section 7.6.3 shall bear the following warning statement:

“Form-Specific Hazard: This substance's GreenScreen Benchmark or GreenScreen List Translator score and the applicable hazards are related to particulate inhalation, which is expected to occur only during manufacture, installation, maintenance, or demolition, due to activities such as sawing, sanding, grinding, or intensive cleaning.”
8. ADDITIONAL REQUIRED CRITERIA

The following criteria must be met for certified products for all levels of certification.

8.1 Indoor Air Quality Criteria (Volatile Organic Compounds)

The product must demonstrate compliance with the State of California’s Department of Public Health (CDPH) Services “Standard Method for Testing and Evaluation of Volatile Organic Chemical Emissions from Indoors Sources using Environmental Chambers Version 1.2 (January, 2017)” (California Specification 01350). The product must demonstrate compliance either through one of the third-party certifications listed or analytical testing specified by California Specification 01350.19

8.2 Wood Used in Furniture

8.2.1 The product must meet one of the following requirements:

1. For products that contain less than 25% wood by mass of the product, no requirement applies;

2. For products that contain ≥ 25% but <50% wood by mass of the product, 100% of the wood must meet the FSC-STD-40-005 V3-1 EN Requirements for Sourcing FSC Controlled Wood; or

3. For products that contain ≥ 50% wood by mass of the product, either:

   a) 100% of the wood must meet the FSC-STD-40-005 V3-1 EN Requirements for Sourcing FSC Controlled Wood; or

   b) The product must meet all requirements of ANSI/BIFMA e-3 2019 Furniture Sustainability Standard Section 6.3.3 and 6.3.3.2:

      • BIFMA Section 6.3.3: Wood specified in the product, other than recovered or reused wood, shall not contain endangered wood species unless the trade of such wood conforms with the requirements of the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), Appendix I or II, and is harvested according to the applicable laws and regulations of the country of origin.

      • BIFMA Section 6.3.3.2: A minimum of 50% of the total product weight confirms to a third-party certification program for environmentally and socially responsible forest management including but not limited to chain of custody practices throughout the supply chain (e.g., FSC-STD-40-004 (V3-0) Chain of Custody Certification). The Applicant shall make the identity of the third-party certification program publicly available.

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8.3 Waste and Recyclability Criteria

To achieve certification at any level, each finished product or its packaging must meet two (2) of the following eight (8) Waste and Recyclability Criteria. The Waste and Recyclability Form is used to document detailed information to enable verification of all claims.

8.3.1 DOES NOT CREATE A HAZARDOUS WASTE—When used for its intended purpose, the product is not regulated as a state or federal hazardous waste (i.e., does not become or generate a hazardous waste product according to state or federal hazardous waste rules):

1. The California Department of Toxic Substances Control’s (DTSC) hazardous waste regulations. (California Code of Regulations (CCR) Title 22, Division 4.5), or

8.3.2 20% OR MORE POST-CONSUMER RECYCLED CONTENT—Product contains more than 20% post-consumer recycled content, excluding steel.

8.3.3 RECYCLABILITY—Product is recyclable (See definition in Terms & Definitions).

8.3.4 10% OR MORE POST-CONSUMER RECYCLED CONTENT—Primary Packaging contains more than 10% post-consumer recycled content.

8.3.5 30% OR MORE POST-CONSUMER RECYCLED CONTENT—Secondary Packaging contains more than 30% post-consumer recycled content.

8.3.6 FOREST STEWARDSHIP COUNCIL—Packaging is currently certified under one of the following Forest Stewardship Council Certifications:

1. 100%—From well-managed forests,
2. Mix—From responsible sources, or
3. Recycled—Made from recycled material.


8.3.8 RECYCLABILITY—Packaging is recyclable (both primary and secondary packaging).
9. DOCUMENTATION REQUIREMENTS

Clean Production Action performs a certification review of the following required documents against the certification requirements. All documentation is submitted by the Applicant.

1. Product Inventory
2. Safety Data Sheets (SDSs)
3. Signed attestation forms, as applicable:\(^{20}\)
   a) Product-level RSL Applicant Disclosure
   b) Bronze RSL Supplier Declaration
   c) Silver-Gold RSL Supplier Declaration
   d) Commodity Fastener Supplier Declaration
   e) Metal Parts Supplier Declaration
   f) Undefined Post-Consumer Recycled Content Supplier Declaration
   g) Electronic Components Supplier Declaration
4. GreenScreen assessments and Benchmark scores (except Bronze and Bronze+)
5. Results from analytical testing
6. Form-specific warning labels, if applicable
7. Indoor Air Quality documentation
8. Documentation to verify claims for wood used in furniture
9. Waste and Recyclability Form

10. CERTIFICATION AND LICENSING

The Applicant must submit all required documentation as applicable to the certification level to Clean Production Action and sign a license agreement with Clean Production Action in order to be awarded certification. A license agreement is required to use the Bronze, Bronze+, Silver, Silver+, Gold, or Gold+ GreenScreen Certified Certification Mark on products and marketing materials.

A certificate for a certified product (or products) is issued by Clean Production Action after the certification review is complete and a License Agreement is executed.

Note: Applicants that have undergone an evaluation but do not meet the certification requirements for Bronze or Bronze+, may still receive a certificate indicating “GSC-Reviewed.” No license agreement is executed with this type of certificate.

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\(^{20}\) The forms must be signed by the CEO or a senior manager with decision-making authority at the organization.
11. CERTIFICATION, LABELING, AND DURATION

11.1 Disclaimer of Liability

Clean Production Action, as the developer of this standard, shall not incur any obligations or liability for any loss or damages, including, without limitation, indirect, consequential, special, or incidental damages, arising out of or in connection with the interpretation or adoption of, reliance upon, or any other use of this standard by any party. Clean Production Action makes no express or implied warranty of merchantability or fitness for a particular purpose, nor any other express or implied warranty with respect to this standard.

11.2 Certification Mark

The appropriate GreenScreen Certified Mark may appear on the product, packaging, secondary documents, and promotional materials, only in conjunction with the certified product, and only the core design Mark or the design Mark with the corresponding level which the product has achieved may be used in conjunction with that certified product. All of the Applicant’s use of the GreenScreen Certified Mark(s) shall be in accordance with the terms of the executed license agreement. No sub-licensing of the Mark(s) is allowed.

The GreenScreen Certified Mark shall not be used in conjunction with any modifying terms, phrases, or graphic images that might mislead customers as to the extent or nature of the certification. Clean Production Action must review all uses of the GreenScreen Certified Mark prior to printing or publishing.

11.3 Use with Other Claims

The GreenScreen Certified Mark shall not appear in conjunction with any human health or environmental claims, unless verified and approved in writing by Clean Production Action.

11.4 Duration of Certification

Certificates for Version 1 of this standard are valid through July 31, 2027 and require annual renewal. Any changes to the product’s chemical or material composition must be reported to Clean Production Action and may invalidate the certificate.

After the first year of the certificate, and each subsequent year during the valid duration, the licensee must renew the certificate by: 1) paying an annual renewal fee; 2) reporting any product changes; and 3) signing a statement by the CEO or a senior manager that no changes have been made to the product’s chemical composition.

Clean Production Action reserves the right to perform product testing on a certified product at any time. Results of the product testing could invalidate the certificate.
ANNEX 1 – CERTIFICATION PROCESS STEPS WITH CPA

1. Applicant registers on the GreenScreen Certified website.

2. Applicant contacts Clean Production Action to begin the certification process.

3. Clean Production Action determines whether product(s) are within scope.

4. Clean Production Action sends the following Application materials:
   a) Non-disclosure agreement (NDA); and
   b) Application Form.

5. Applicant signs NDA and completes Application Form. Applicant sends signed NDA and signed Application Form to Clean Production Action.

6. Clean Production Action countersigns NDA and sends executed NDA to Applicant.

7. Clean Production Action sends Applicant an invoice.

8. Applicant pays the invoice.

9. Clean Production Action sends Applicant the following materials:
   a) Product Inventory Form;\(^{21}\) and
   b) Instructions for analytical testing.

10. Applicant submits the completed Product Inventory Form, Safety Data Sheets, and GreenScreen assessment reports (for Gold and Gold+ only) for all inputs including mixtures and polymers purchased from suppliers, and analytical testing results.

11. Clean Production Action performs product and certification reviews. Clean Production Action requests additional information from Applicant as needed.

12. Clean Production Action informs Applicant of the results of the product and certification reviews.

13. Applicant informs Clean Production Action whether they will proceed with either:
   a) A License Agreement for products that meet the certification requirements; or
   b) A GSC-Reviewed certificate for products that meet the GSC-Reviewed requirements but do not meet the certification requirements.

14. Clean Production Action sends Applicant a License Agreement.

15. Applicant signs and returns the License Agreement.

16. Clean Production Action countersigns the License Agreement and sends an executed copy to the Applicant.

17. Clean Production Action lists certified product(s) on the Clean Production Action website and sends Applicant certificate(s) for certified product(s).

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\(^{21}\) A Health Product Declaration (HPD) could also be used for meeting the Product Inventory requirements described in Section 5. The HPD Builder can be used as a tool for creating the HPD to be consistent with the HPD Open Standard.
ANNEX 2 – CERTIFICATION PROCESS STEPS WITH GREENSCREEN CERTIFIED REVIEWER

A2.1  Product Review Process using a GreenScreen Certified Reviewer

1. Applicant registers on the GreenScreen Certified website.
2. Applicant contacts Clean Production Action-approved GreenScreen Certified Reviewer to begin the product review process.
3. GreenScreen Certified Reviewer confirms with Clean Production Action that Applicant is registered for GreenScreen Certified and determines whether product(s) are within scope.
4. Applicant hires GreenScreen Certified Reviewer to complete the product review.
5. GreenScreen Certified Reviewer informs Applicant of the results of the product review and provides Applicant a completed Product Review Report.

A2.2  Certification Process with CPA

1. Applicant submits completed Product Review Report to Clean Production Action to initiate certification review and licensing services.
2. Clean Production Action sends Applicant an invoice.
3. Applicant pays the invoice.
4. Clean Production Action performs certification review. Clean Production Action requests additional information from Applicant or GreenScreen Certified Reviewer, as needed.
5. Clean Production Action informs Applicant of the results.
6. Applicant informs Clean Production Action whether they will proceed with either:
   a. A License Agreement for products that meet the certification requirements; or
   b. A GSC-Reviewed certificate for products that meet the GSC-Reviewed requirements but do not meet the certification requirements.
7. Clean Production Action sends Applicant a License Agreement.
8. Applicant signs and returns the License Agreement.
9. Clean Production Action countersigns the License Agreement and sends an executed copy to the Applicant.
10. Clean Production Action lists certified product(s) on the Clean Production Action website and sends Applicant certificate(s) for certified product(s).
ANNEX 3 – REQUIREMENTS FOR A GSC-REVIEWED CERTIFICATE

A3.1 Products that have been reviewed through the GreenScreen Certified process for the Bronze or Bronze+ level of certification but do not meet all of the certification criteria may be eligible to receive a GSC-Reviewed certificate.

A3.2 The Applicant must submit the following required information to Clean Production Action:

A3.2.1 A complete Material Inventory for the product.

A3.2.2 A list with the chemical name and CASRN for each chemical in the product that does not meet RSL requirements.

A3.2.3 A completed supplier attestation for each material in the product indicating the chemical present for any requirement that is not met.

A3.3 Clean Production Action will provide Applicant with a certificate stating that the product has been reviewed and reporting on the requirements that were not met.
ANNEX 4 – GREENSCREEN CERTIFIED FURNITURE & FABRICS RESTRICTED SUBSTANCES LIST (RSL)

During the certification process, Applicants will receive an RSL reference list including chemical names and CASRN for each chemical group on the RSL(s).

A4.1  EU RoHS Directive (Electronics)

A4.1.1  Each electrical and/or electronic part in the product must be compliant with EU Directive 2011/65/EU and EU Directive 2015/863. This means each homogeneous material in each electrical and/or electronic part shall be compliant with all maximum concentration values excluding all exemptions.

A4.1.2  The restricted substances and their maximum concentration values are included in Table A1 below for reference only. Attestation is made in reference to the most recent version of the Directive and excludes all exemptions.

<table>
<thead>
<tr>
<th>Restricted Substance</th>
<th>RoHS Maximum Concentration Value (Weight % of Homogeneous Material)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cadmium (Cd)</td>
<td>100 ppm (0.01%)</td>
</tr>
<tr>
<td>Lead (Pb)</td>
<td>1000 ppm (0.1%)</td>
</tr>
<tr>
<td>Mercury (Hg)</td>
<td>1000 ppm (0.1%)</td>
</tr>
<tr>
<td>Hexavalent Chromium (Cr VI)</td>
<td>1000 ppm (0.1%)</td>
</tr>
<tr>
<td>Bis(2-Ethylhexyl) phthalate (DEHP)</td>
<td>1000 ppm (0.1%)</td>
</tr>
<tr>
<td>Benzyl butyl phthalate (BBP)</td>
<td>1000 ppm (0.1%)</td>
</tr>
<tr>
<td>Dibutyl phthalate (DBP)</td>
<td>1000 ppm (0.1%)</td>
</tr>
<tr>
<td>Diisobutyl phthalate (DIBP)</td>
<td>1000 ppm (0.1%)</td>
</tr>
<tr>
<td>Polybrominated Biphenyls (PBB)</td>
<td>1000 ppm (0.1%)</td>
</tr>
<tr>
<td>Polybrominated Diphenyl Ethers (PBDE)</td>
<td>1000 ppm (0.1%)</td>
</tr>
</tbody>
</table>

22 EU Directive 2015/863 is an amendment to RoHS Directive (2011/65/EU); however, the requirements of both shall apply.
A4.2 Bisphenols (Bronze list)

[Go Back to Bronze RSL Summary Table]

A4.2.1 Homogeneous materials in the certified products shall not contain any chemical at or above 1000 ppm of the material that is listed in Table A2.

**TABLE A2: Restricted Bisphenols (Bronze list)**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CASRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bisphenol G</td>
<td>127-54-8</td>
</tr>
<tr>
<td>Bisphenol TMC</td>
<td>129188-99-4</td>
</tr>
<tr>
<td>Bisphenol M</td>
<td>13595-25-0</td>
</tr>
<tr>
<td>Bisphenol AF</td>
<td>1478-61-1</td>
</tr>
<tr>
<td>Bisphenol C2</td>
<td>14868-03-2</td>
</tr>
<tr>
<td>Bisphenol AP</td>
<td>1571-75-1</td>
</tr>
<tr>
<td>Bisphenol E (BPE)</td>
<td>2081-08-5</td>
</tr>
<tr>
<td>Bisphenol P</td>
<td>2167-51-3</td>
</tr>
<tr>
<td>Bisphenol PH</td>
<td>24038-68-4</td>
</tr>
<tr>
<td>4-cumylphenol (HPP)</td>
<td>599-64-4</td>
</tr>
<tr>
<td>Bisphenol F (BPF)</td>
<td>620-92-8</td>
</tr>
<tr>
<td>Bisphenol B (BPB)</td>
<td>77-40-7</td>
</tr>
<tr>
<td>Bisphenol A (BPA)</td>
<td>80-05-7</td>
</tr>
<tr>
<td>Bisphenol C</td>
<td>79-97-0</td>
</tr>
<tr>
<td>Bisphenol S (BPS)</td>
<td>80-09-1</td>
</tr>
<tr>
<td>Bisphenol Z</td>
<td>843-55-0</td>
</tr>
</tbody>
</table>

A4.3 Polyvinyl Chloride (PVC)

[Go Back to Bronze RSL Summary Table]

A4.3.1 Products shall not contain PVC (CASRN 9002-86-2) at or above 1000 ppm of the product.
A4.4 Flame Retardants (Non-Electronic)

[Go Back to Bronze RSL Summary Table]

A4.4.1 Homogeneous materials in non-electronic parts of the certified products shall not contain any flame retardant chemical at or above 1000 ppm of the material as defined below:

“Any chemical or chemical compound for which a functional use is to resist or inhibit the spread of fire. Flame retardant chemicals include, but are not limited to, halogenated, phosphorous-based, nitrogen-based, and nanoscale flame retardants, flame retardant chemicals listed as “designated chemicals” pursuant to Section 105440 of the Health and Safety Code, and any chemical or chemical compound for which “flame retardant” appears on the substance Safety Data Sheet (SDS) pursuant to Section 1910.1200(g) of Title 29 of the Code of Federal Regulations.” (California Senate Bill 1019; https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1019, accessed 6/3/21.)

A4.4.2 Flame retardants in privacy curtains and drapery are allowable provided each flame retardant chemical has a valid GreenScreen assessment and each resulting GreenScreen score is Benchmark-3 or higher.

A4.5 Halogenated Flame Retardants (Electronics)

[Go Back to Bronze RSL Summary Table]

A4.5.1 Each homogeneous material in each electrical or electronic part or component in the certified product shall not contain any organohalogen flame retardant chemical as defined below at or above 1000 ppm of the material:

- **Organohalogen**: A chemical containing one or more halogen atoms (typically chlorine, bromine, fluoride, or iodine) bound to a carbon atom.

- **Flame retardant**: “Any chemical or chemical compound for which a functional use is to resist or inhibit the spread of fire.” (Excerpt from California Senate Bill 1019; https://leginfo.legislature.ca.gov/faces/billNavClient.xhtml?bill_id=201320140SB1019, accessed 6/3/21.)
A4.6 **Ortho-Phthalates (Bronze List)**

[Go Back to Bronze RSL Summary Table]

**A4.6.1** Homogeneous materials in the certified products shall not contain any chemical listed in Table A3 at or above 1000 ppm of the material.

**TABLE A3: Restricted Ortho-Phthalates (Bronze List)**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CASRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Di(2-ethylhexyl)phthalate (DEHP) (primary CASRN)</td>
<td>117-81-7</td>
</tr>
<tr>
<td>Di-n-pentyl phthalate (DNPP)</td>
<td>131-18-0</td>
</tr>
<tr>
<td>Di-isodecyl phthalate (DIDP)</td>
<td>26761-40-0</td>
</tr>
<tr>
<td>Diisononyl phthalate (DINP-2 or DINP-3, mixture of isomers as manufactured)</td>
<td>28553-12-0</td>
</tr>
<tr>
<td>Diisononyl phthalate (DINP) (synonym)</td>
<td>68515-48-0 (synonym 28553-12-0)</td>
</tr>
<tr>
<td>Di-isodecyl phthalate (DIDP) (synonym)</td>
<td>68515-49-1 (synonym 26761-40-0)</td>
</tr>
<tr>
<td>Di-cyclohexyl phthalate (DCHP)</td>
<td>84-61-7</td>
</tr>
<tr>
<td>Diisobutyl phthalate (DIBP)</td>
<td>84-69-5</td>
</tr>
<tr>
<td>Dibutylphthalate (DBP)</td>
<td>84-74-2</td>
</tr>
<tr>
<td>Di-n-hexyl phthalate (DnHP)</td>
<td>84-75-3</td>
</tr>
<tr>
<td>Benzylbutylphthalate (BBP)</td>
<td>85-68-7</td>
</tr>
</tbody>
</table>
A4.7 California Proposition 65 Chemicals

[Go Back to Bronze RSL Summary Table]

A4.7.1 The Applicant shall attest that the product does not contain chemicals listed by the State of California to cause cancer, birth defects, or reproductive harm that require a warning or are prohibited from release to the environment under the California Safe Drinking Water and Toxic Enforcement Act of 1986.

Additional Prop 65 Guidance:

See https://www.p65warnings.ca.gov for official regulatory guidance in order to meet the requirements above. The following is adapted from the “For Businesses” section of the website, accessed 8/27/20:

To guide businesses in determining whether a warning is necessary or whether discharges of a chemical into drinking water sources are prohibited, the Office of Environmental Health Hazard Assessment (OEHHA) has developed safe harbour levels for many chemicals on the CA Prop 65 List.24 A safe harbour level identifies a level of exposure to a listed chemical. If the chemical is below the safe harbour limit in the material, it does not require a Proposition 65 warning.

If OEHHA has not established a safe harbor level for a chemical, businesses that expose individuals to that chemical would be required to provide a Proposition 65 warning, unless the business can show that the anticipated exposure level will not pose a significant risk of cancer or reproductive harm.25 OEHHA has adopted regulations that provide guidance for businesses in calculating their own level in the absence of an OEHHA safe harbor level. Regulations are available at Article 7 (No Significant Risk levels for cancer) and Article 8 (No Observable Effect Levels for Repro/Developmental) of Title 27, California Code of Regulations.

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A4.8 Antimicrobials (Surface Pathogens)

A4.8.1 All antimicrobials used for surface pathogens are prohibited in certified products. The following amendment defines the very limited and specific conditions an antimicrobial used for surface pathogens must meet to be used in a certified product.

A4.8.2 Use of antimicrobials for surface pathogens is only allowed in a certified product if the manufacturer can provide a current US EPA registration as a public health antimicrobial pesticide product for the use pattern proposed with the full data required by 40 CFR Part 158 submitted to EPA. [Note: conditional registration without a full data set is not acceptable]. If claims against any specific public health microorganism are made, the registration must also include efficacy testing to reduce hospital acquired infections for each such microorganism.

Rationale

Interior products containing antimicrobial chemicals have been suggested as a possible solution to aid in fighting the spread of disease. However, there is no evidence that antimicrobial impregnation in these applications has any benefit for infection or disease control but there is evidence that it has other harms related to human health and environmental toxicity.26

While antimicrobial additives are shown to be effective in inhibiting the growth of bacteria or other microorganisms in a laboratory setting, a thorough review of the scientific literature reveals no evidence that textiles containing antimicrobials assist in preventing infection or lowering infection rates. A product that claims to control pest microorganisms that pose a threat to human health is required to be registered with the US EPA as a public health antimicrobial pesticide product for the use pattern proposed (i.e., in or on furniture and/or fabric).

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A4.9  **Antimicrobials (Preservatives)**

[Go Back to Bronze RSL Summary Table]

**A4.9.1** Certified products shall not contain any of the following chemicals in Table A4 above 0 ppm in the product for the purpose(s) of preserving the product.

**A4.9.2** If one or more of the chemicals listed in Table A4 are present for the purpose of reducing surface pathogens, either the criteria in the Bronze RSL Summary Table (Table 3) or the criteria in Section A4.8 applies.

**TABLE A4:**  **Restricted Antimicrobials (Preservatives)**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CASRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Didecyl Dimethyl Ammonium Chloride (DDAC)</td>
<td>7173-51-5</td>
</tr>
<tr>
<td>Diiodomethyl p-tolyl sulfone</td>
<td>20018-09-1</td>
</tr>
<tr>
<td>Free of Hexamethylenetetramine</td>
<td>100-97-0</td>
</tr>
<tr>
<td>Kathon 886 (CIT/MIT mixture)</td>
<td>55965-84-9</td>
</tr>
<tr>
<td>Methylchloroisothiazolinone (CIT, CMIT)</td>
<td>26172-55-4</td>
</tr>
<tr>
<td>Methylisothiazolinone (MIT)</td>
<td>2682-20-4</td>
</tr>
<tr>
<td>N-octadecyldimethyl ammonium chloride</td>
<td>1613-17-8</td>
</tr>
<tr>
<td>Silver (nano)</td>
<td>7440-22-4</td>
</tr>
<tr>
<td>Silver sodium hydrogen zirconium phosphate</td>
<td>265647-11-8</td>
</tr>
<tr>
<td>Silver zinc zeolites</td>
<td>130328-20-0</td>
</tr>
<tr>
<td>Triclocarban</td>
<td>101-20-2</td>
</tr>
<tr>
<td>Triclosan</td>
<td>3380-34-5</td>
</tr>
<tr>
<td>Zinc Pyrithione</td>
<td>13463-41-7</td>
</tr>
<tr>
<td>Benzisothiazolin 3-one (BIT)</td>
<td>2634-33-5</td>
</tr>
</tbody>
</table>

A4.10  **Persistent, Bioaccumulative, and Toxic chemicals (PBTs)**

[Go Back to Bronze RSL Summary Table]

**A4.10.1** All homogenous materials shall contain less than 1000 ppm of persistent, bioaccumulative, and toxic chemicals (PBTs), including chemicals on any of the following lists:

1. US EPA—Priority PBTs and US EPA—Priority PBTs (NWMP)
2. OSPAR—Priority PBTs & EDs & equivalent concern
3. UNEP Stockholm Conv—Persistent Organic Pollutants
4. US EPA—Toxics Release Inventory PBTs
A4.11 **Metals and their Compounds (Non-Electronic): Cadmium, Lead, Mercury, Organotin, and Antimony**

[Go Back to Bronze RSL Summary Table]

**A4.11.1** The homogeneous materials in the product do not contain mercury, lead, cadmium, or organotin compounds in the following amounts:

1. Lead and lead-containing compounds in concentrations exceeding 40 ppm,
2. Mercury and mercury-containing compounds exceeding 100 ppm,
3. Cadmium and cadmium-containing compounds exceeding 100 ppm, and
4. Organotin compounds [e.g. tributyltin (TBT), dibutyltin (DBT)] exceeding 100 ppm.

**A4.11.2** For non-synthetic fabrics, all homogenous materials contain at or less than 0.2 mg/kg of antimony or its compounds.

A4.12 **Per- and Polyfluoroalkyl Substances (PFAS)**

[Go Back to Bronze RSL Summary Table]

A certified product shall not contain any PFAS chemical that meets the definition in A4.12.1 and/or is included on the reference list specified in A4.12.2 below that is:

1. Intentionally added ≥ 0.01% by mass (100 ppm) in each homogeneous material, or
2. An impurity ≥ 0.01% by mass (100 ppm) in each homogeneous material.

**A4.12.1** PFAS Definition: see Terms and Definitions for “PFAS”.

A4.13  **Azo Dyes**

[Go Back to Bronze RSL Summary Table]

**A4.13.1**  Products shall meet all relevant requirements listed in Entry 43 of Annex XVII of Regulation (EC) 1907/2006.

**Additional Annex XVII Guidance**

The following Guidance for Entry 43 in Regulation (EC) 1907/2006 is provided for reference only. The Applicant must attest to the Regulation itself.

Chemicals included in the GreenScreen RSL include:

1. Azodyes, which by reductive cleavage of one or more azo groups may release one or more of the aromatic amines listed in Appendix 10 of Annex XVII of Regulation (EC) 1907/2006, in detectable concentrations (i.e., above 30 mg/kg (0,003 % by weight)), in the articles or in the dyed parts thereof. Testing methods that can be used to identify azo dyes that release aromatic amines are listed in Appendix 10 of Annex XVII of Regulation (EC) 1907/2006.

2. Azodyes, which are listed in Appendix 9 of Annex XVII of Regulation (EC) 1907/2006 shall not be placed on the market, or used, as substances, or in mixtures in concentrations greater than 0.1 % by weight, where the substance or the mixture is intended for coloring textile and leather articles.

A4.14  **Bisphenols (Silver-Gold)**

[Go Back to Bronze RSL Summary Table]

**A4.14.1**  Homogeneous materials in the certified products shall not contain BPA or one or more Bisphenols at or above 100 ppm of the material as defined below:

Structural analogs to be avoided include any compound with the following characteristics:

1. All compounds with a Tanimoto Coefficient of 0.9-1.0 (compared to Bisphenol-A CASRN 80-05-7) are restricted. [Note: Tanimoto Coefficient as calculated using EPA's CompTox Dashboard].

2. Any compound with a Tanimoto Coefficient of 0.8-0.9 is restricted until there are publicly available, valid in vitro or in vivo hazard data that enable evaluation of estrogen and androgen receptor agonism and antagonism. If a compound does not have significant endocrine disrupting potential, it is not included.

3. Chemicals with a Tanimoto Coefficient <0.8 shall be considered restricted if the compound:

   a) Has demonstrated endocrine disrupting potential (estrogen and/or androgen receptor agonism and/or antagonism) and is used as a functional substitute for BPA, or
b) Is detected in environmental media or human biomonitoring studies and it is used as a functional substitute for BPA and publicly available hazard data to evaluate endocrine disrupting potential (estrogen and/or androgen receptor agonism and/or antagonism) are lacking.

Note: If the compound is detected in environmental media or human bio-monitoring studies and it is used as a functional substitute for BPA but has sufficient publicly available hazard data to demonstrate that it does not have endocrine disrupting potential (estrogen and/or androgen receptor agonism and/or antagonism), it is not restricted.

A4.15 Ortho-phthalates (Silver-Gold)

[Go Back to Bronze RSL Summary Table]

A4.15.1 Homogeneous materials in the certified products shall not contain any ortho-phthalates at or above 100 ppm of the material as defined below:

Dialkyl ortho-phthalates (or phthalate esters) are defined by the chemical structure below, and contain alkyl side groups, meaning the side groups contain only carbon and hydrogen.

\[
\text{O} \quad \text{O} \\
\text{R} \quad \text{R'}
\]

(R, R’ groups can be linear, branched, or linear/branched or cyclic ring)

A4.16 Alkylphenols and Alkylphenol Ethoxylates

[Go Back to Bronze RSL Summary Table]

A4.16.1 Homogeneous materials in the certified products shall not contain any chemical meeting the definition of alkylphenol or alkylphenol ethoxylate below and contain one or more alkyl chains with a carbon chain length of six carbons or more present at or above 100 ppm of the material.

- Alkylphenols (AP): Chemical compounds that consist of one or more alkyl chains bound to a phenol. Phenol consists of an aromatic ring and a hydroxyl group. An alkyl chain is an acyclic saturated hydrocarbon (consisting of hydrogen and carbon atoms arranged in a tree structure in which all carbon-carbon bonds are single) with the general formula \(\text{CnH}_{2n+1}\).

- Alkylphenol Ethoxylates (APEs): Derivatives of alkylphenols prepared by a chemical reaction between ethylene oxide and an alkylphenol, resulting in an ethoxylated chain with the general formula -(\text{OC2H4})_n\text{OH} replacing the hydroxyl group.
A4.17 Cyclic Volatile Methyl Siloxanes (cVMS)

[Go Back to Bronze RSL Summary Table]

A4.17.1 Homogeneous materials in the certified products shall not contain any chemical (intentionally added or impurity) that is listed in Table A5 at or above 100 ppm of the material.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CASRN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dodecamethylcyclohexasiloxane (D6)</td>
<td>540-97-6</td>
</tr>
<tr>
<td>Decamethylcyclopentasiloxane (D5)</td>
<td>541-02-6</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane (D4)</td>
<td>556-67-2</td>
</tr>
<tr>
<td>Mixtures containing one or more of D4, D5, D6</td>
<td>Mixture</td>
</tr>
</tbody>
</table>

A4.18 ZDHC Manufacturing Restricted Substances List (MRSL)

[Go Back to Bronze RSL Summary Table]

A4.18.1 Homogeneous materials in the certified products shall not contain any chemical that is listed on the ZDHC Manufacturing Restricted Substances List version 2.0 (MRSL) at or above the thresholds specified in the MRSL.

A4.19 Organohalogens

[Go Back to Bronze RSL Summary Table]

A4.19.1 Homogeneous materials in the certified products shall not contain any chemical at or above 100 ppm of the material that meets the definition of organohalogen below.

Organohalogen: A chemical containing one or more halogen atoms (typically chlorine, bromine, fluorine, or iodine) bound to a carbon atom.

A4.20 Green List Translator LT-1

[Go Back to Bronze RSL Summary Table]

A4.20.1 Homogeneous materials in the certified product shall not contain any chemical at or above 100 ppm that when evaluated using GreenScreen List Translator, receives a score of LT-1.
The GreenScreen Certified Standard for Furniture & Fabrics is for evaluation of a broad product category that could include commercial office furnishings such as desk systems and seating, and related accessories, or residential furnishings such as mattresses. This standard provides the means for manufacturers to communicate their use of safer chemicals per the GreenScreen® hazard assessment tools.

GreenScreen Certified ensures value, usability, and relevance for industry professionals wanting to excel in offering products made with preferred chemicals for people and the planet.