



# GreenScreen Certified™



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# Standard for Textile Chemicals

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

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# Acknowledgments

The GreenScreen Certified™ Standard for Textile Chemicals provides the means for formulators of commercial chemicals used in textile manufacturing to communicate their use of safer chemicals per the GreenScreen® for Safer Chemicals hazard assessment method. The intention is to ensure value, usability, and relevance for industry professionals wanting to excel in offering safer chemical formulations used in textile manufacturing.

Clean Production Action developed the GreenScreen Certified™ Standard for Textile Chemicals version 1.0 in consultation with a diverse group of stakeholders, including Clean Production Action's Licensed GreenScreen Profilers and Steering Committee members, formulators, brands, external standard setting organizations, consultancies, and other environmental groups.

This effort would not have been possible without the help of the technical peer reviewers and key contributors (listed below) 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 of Clean Production Action for her efforts in developing legal terms of use and website resources necessary to implement and launch the certification program.

## Key Contributors

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## 1. PURPOSE

- 1.1** This guidance document outlines the requirements and process for the GreenScreen Certified™ Standard for Textile Chemicals administered by Clean Production Action. See Figure 1 in Section 5 for a process overview.
- 1.2** GreenScreen Certified™ Certification Marks are awarded via license to textile chemical manufacturers and suppliers who demonstrate that their product(s) meet one of three levels of increasingly stringent requirements for safer chemicals as defined by the GreenScreen Certified™ Standard for Textile Chemicals and who have paid the required license fee.
- 1.3** An alternate certification process is available until December 31, 2017, for Applicants who provide the required information outlined in Section 13 to Clean Production Action.

## 2. SCOPE

- 2.1** The GreenScreen Certified™ Standard for Textile Chemicals is for commercially available chemical formulations used in textile manufacturing. The Applicant for certification should contact Clean Production Action ([greenscreen@cleanproduction.org](mailto:greenscreen@cleanproduction.org)) if questions arise on whether certain products are within the scope of this Standard.
- 2.2** GreenScreen Certified™ Certification Marks do not guarantee adherence to any other external quality, performance, or regulatory requirements.

## 3. SUPPORTING DOCUMENTS

Supporting documents needed to implement the certification requirements in this Standard include:

- 3.1** Product Inventory Form,<sup>1</sup>
- 3.2** Verification Summary Report templates,<sup>1</sup>
- 3.3** GreenScreen® for Safer Chemicals Guidance and Resources,<sup>2</sup> and
- 3.4** Zero Discharge of Hazardous Chemicals Programme Group B Manufacturing Restricted Substances List (ZDHC Group B MRSL).<sup>3</sup>

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1 [www.greenscreencertified.org](http://www.greenscreencertified.org)

2 <https://www.greenscreenchemicals.org/method/method-documents>

3 See Section 7. The current version of the MRSL list can be downloaded at:  
<http://www.roadmaptozero.com/programme/manufacturing-restricted-substances-list-MRSL-conformity-guidance>

## 4. TERMS AND DEFINITIONS

| TERM  | DEFINITION   |
|---|--|
| <b>Applicant</b>  | An organization or entity that submits a textile chemical product formulation or formulations for certification according to the GreenScreen Certified Standard for Textile Chemicals.   |
| <b>Authorized GreenScreen Assessment</b>  | A GreenScreen assessment completed by an Authorized GreenScreen Practitioner™ for his or her registered organization only. These assessments can be upgraded to “certified assessments” through the GreenScreen Verification Program to qualify for use in the GreenScreen Certified program.  |
| <b>Authorized GreenScreen Practitioner</b>  | 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.  |
| <b>Certification Level (for GreenScreen Certified Standard for Textile Chemicals)</b> | The GreenScreen Certified Standard for Textile Chemicals v1.0 specifies three levels of requirements for safer chemicals in product formulations: Bronze, Silver, and Gold.  |
| <b>Certified GreenScreen Assessment</b>   | A GreenScreen assessment completed by a Licensed GreenScreen Profiler or Clean Production Action Consulting Toxicologist (including assessments performed by Authorized GreenScreen Practitioners and upgraded to Certified through the GreenScreen Verification Program). Note: The term “Certified GreenScreen Assessment” 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> ). Whereas the certification of a chemical formulation for textiles is attained through the application of this Standard, GreenScreen Certified Standard for Textile Chemicals.  |
| <b>Chemical Substance (“Substance”)</b>   | A substance of fixed composition, characterized by its molecular structure(s), which typically has an associated Chemical Abstract Service Registry Number (CASRN). Synonyms include “constituent,” “ingredient,” “chemical,” “compound,” and “component.”   |
| <b>GreenScreen Benchmark™ Score</b>   | A score that is assigned to a chemical evaluated using the GreenScreen® for Safer Chemicals method. GreenScreen Benchmarks range from 1 to 4, with each increasing Benchmark score defining progressively less hazardous chemicals (see Guidance resources: <a href="https://www.greenscreenchemicals.org/learn/full-greenscreen-method">https://www.greenscreenchemicals.org/learn/full-greenscreen-method</a> ).   |
| <b>GreenScreen Certified™ Certification Marks</b>                                     | The trademarked logos and phrase that may be licensed for use by a successful Applicant to describe the products that meet all of the requirements of a specified level (Bronze, Silver, or Gold) of the GreenScreen Certified™ Standard for Textile Chemicals and as verified and approved by Clean Production Action.  |
| <b>GreenScreen List Translator™ Score</b>   | List Translator scores are based upon screening chemicals against GreenScreen Specified Lists using GreenScreen List Translator guidance:<br><br>“LT-1” means “Likely GreenScreen Benchmark-1.” If a GreenScreen assessment was performed on the chemical, it would likely result in a Benchmark-1 score.<br><br>“LT-P1” means “Possible GreenScreen Benchmark-1.” Frequently this means that the chemical appears on a list that does not translate directly to a single Benchmark score and Benchmark-1 is included in the range of possible Benchmark scores.<br><br>“LT-UNK” (“unknown”) indicates that a chemical is present on a GreenScreen Specified List, but that there is insufficient information to classify the hazard as LT-1 or LT-P1. The LT-UNK score or the absence of a chemical on hazard lists does not mean it is safe. It may mean the chemical has not been reviewed by the body publishing the list or that the chemical has not yet been well-tested.<br><br>“NoGSLT” indicates there is no GreenScreen List Translator score for the chemical. |

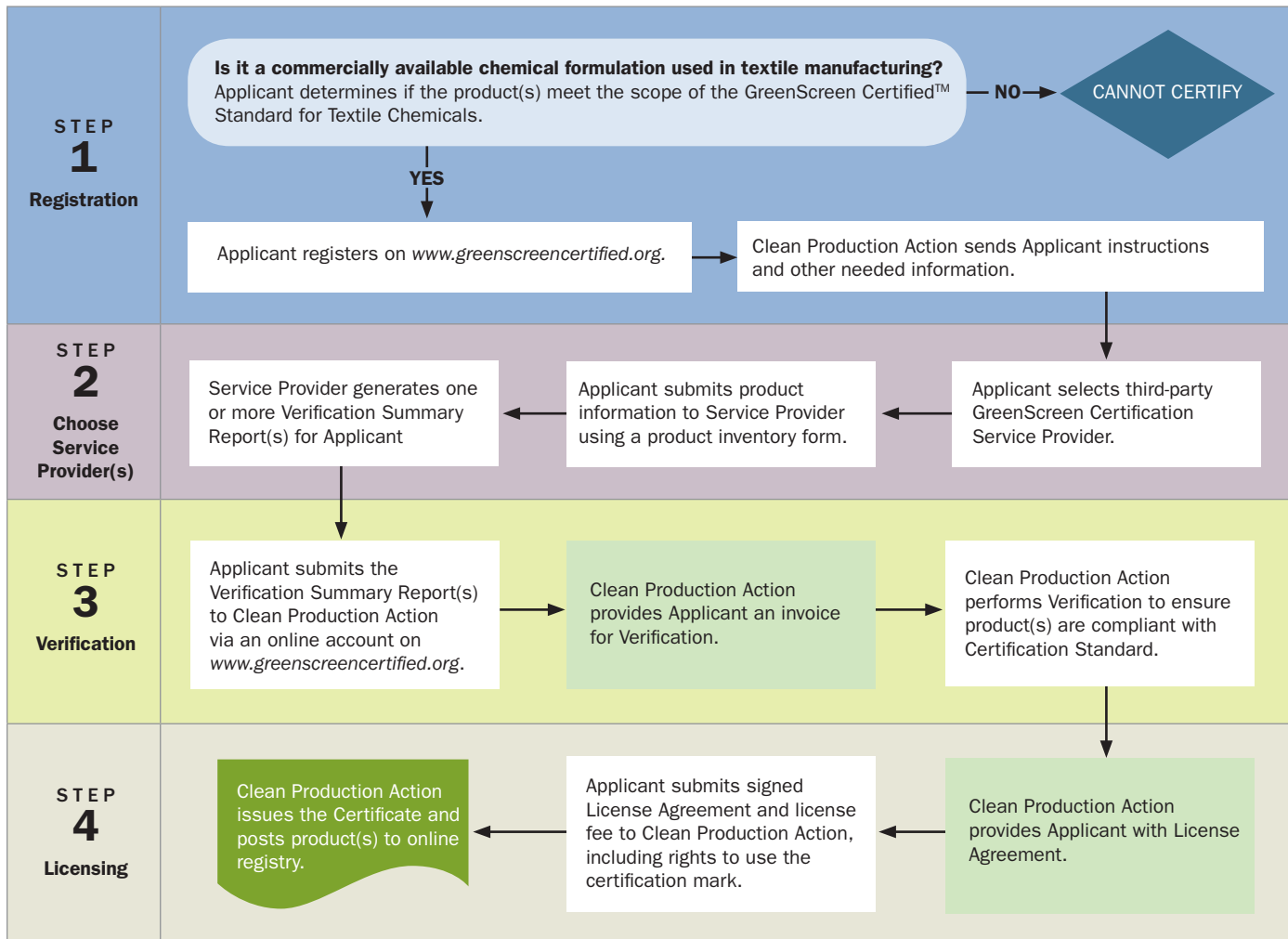
| TERM   | DEFINITION  |
|--|---|
| <b>GreenScreen Software Provider</b>                           | Clean Production Action partners with organizations who provide automation of the GreenScreen List Translator. Such tools allow users to search on chemical names and/or Chemical Abstract Service Registry Numbers (CASRNs) to quickly find GreenScreen List Translator scores. A list of currently available tools can be found at: <a href="https://www.greenscreenchemicals.org/learn/greenscreen-list-translator">https://www.greenscreenchemicals.org/learn/greenscreen-list-translator</a> . |
| <b>Product Inventory Form</b>                                  | A form for listing each product being certified and the chemical substances comprising each product. See form instructions and tables for additional required information.  |
| <b>Textile</b>   | The term “textile” refers to any kind of woven, knitted, knotted or tufted cloth; a non-woven cloth made of fibers that have been bonded into a fabric; or materials used to manufacture cloth/fabric such as yarns, threads and wools (source: <a href="http://www.apparesearch.com/definitions/fabric/textile_definition.htm">http://www.apparesearch.com/definitions/fabric/textile_definition.htm</a> ).  |
| <b>Third-Party Green-Screen Certification Service Provider</b> | Organizations approved by Clean Production Action to provide the services of product inventory management (including supply chain research and handling confidential business information) and creating a Verification Summary Report to be submitted to Clean Production Action.   |
| <b>Verification Summary Report</b>                             | The form used to document compliance with the GreenScreen Certified Standard for Textile Chemicals (see Section 2 for how to obtain this form).   |



## 5. HOW TO GET PRODUCTS GREENSCREEN CERTIFIED

Figure 1 below summarizes the process an Applicant shall follow to obtain certification under the GreenScreen Certified Standard for Textile Chemicals (see Section 13 for the Alternate Certification Process). An Applicant selects one or more third-party GreenScreen Certification Service Provider to work with based on the Applicant’s needs and the services offered by the service provider. Service options and providers are described in detail on [www.greenscreencertified.org](http://www.greenscreencertified.org).

FIGURE 1. Process Overview for GreenScreen Certified™ Standard for Textile Chemicals



## 6. PRODUCT INVENTORY THRESHOLDS

A product inventory of intentionally added substances > 0 ppm (> 0%) and impurities  $\geq$  100 ppm (0.01%) in formulations is required. This includes any substances at or above applicable ZDHC Group B MRSL levels if the concentration specified is lower than 100 ppm (see section 7.5 for a full list of required elements of a product inventory).

## 7. VERIFICATION SUMMARY REPORT

The Applicant commissions a third-party GreenScreen Certification Service Provider to complete the Verification Summary Report. This work is typically completed under Non-Disclosure Agreement (NDA) between the Applicant and the third-party GreenScreen Certification Service Provider.

**The Verification Summary Report created by a third-party GreenScreen Certification Service Provider shall include all of the following:**

- 7.1** Organization contact information;
- 7.2** Third-party GreenScreen Certification Service Provider contact information;
- 7.3** Product trade name or other identifier for the product formulation;
- 7.4** An estimation of the certification level achieved for the product formulation according to the criteria specified in Section 10 of this Standard: Bronze, Silver, or Gold;
- 7.5** Product inventory that demonstrates the formulation meets the certification level achieved. It is recommended that the Applicant provide the third-party GreenScreen Service Provider with a Product Inventory Form filled in by the Applicant (see Supporting Documents section for access to recommended Product Inventory Form). Completing a product inventory may require the assistance of a third-party where CASRNs are proprietary. The product inventory in the Verification Summary Report shall include, for each substance in the formulation:
  - 1) Product trade name;
  - 2) Chemical name;
  - 3) CASRN;

Note the chemical name and CASRN may be redacted if the Verification Summary Report includes for each redacted substance:

- an alphanumeric identifier;
- either:
  - a GreenScreen List Translator score,
  - a GreenScreen Benchmark score, or
  - for qualifying polymers and colorants, a “United States Environmental Protection Agency (USEPA) Safer Choice Acceptable” designation; and
- name of GreenScreen Certification Service Provider that generated the GreenScreen score or USEPA Safer Choice designation.

- 4) Trade name of substance(s) in the formulation (if applicable);
- 5) Supplier name of substance(s) with trade names (if applicable);
- 6) Weight percent in the product;
- 7) Function in the product (for example, wetting agent, surfactant, dispersing agent, or emulsifier);
- 8) GreenScreen List Translator:
  - a. score,
  - b. source (of the score), and
  - c. date (the score was accessed from the source);
- 9) GreenScreen Benchmark (if applicable):
  - a. score,
  - b. organization name of the Licensed Profiler that completed the assessment, and
  - c. expiration date of the assessment; and
- 10) For a polymer or colorant, “USEPA Safer Choice Acceptable” or “USEPA Safer Choice Unacceptable” designation, including name of assessor and date of assessment (see section 9.3 for expiration dates for using USEPA Safer Choice designations).

**7.6** Indication of any substance listed on the ZDHC Group B MRSL; and

**7.7** Statement of how the inventory was determined. For example, analytical test results, Safety Data Sheet (SDS), and/or supplier attestations.

## 8. MANUFACTURER RESTRICTED SUBSTANCE LIST (MRSL)

All GreenScreen Certified Standard for Textile Chemicals Certification Levels require that the substances provided in the Product Inventory Form be checked against the ZDHC Group B MRSL.<sup>4</sup> Certification cannot be awarded at any level if the product contains a substance listed on the ZDHC Group B MRSL at or above the concentration specified in the MRSL.

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<sup>4</sup> The current version of the ZDHC MRSL will apply during the GreenScreen Certified™ product review process and for the active certification period. If updates to the ZDHC MRSL occur any time during that period, the product will need to be reviewed against the updated version of the ZDHC MRSL at the time of renewal (see <http://www.roadmaptozero.com/programme/manufacturing-restricted-substances-list-MRSL-conformity-guidance>).

## 9. CHEMICAL HAZARD ASSESSMENT

- 9.1** If the formulation passes the MRSL requirement, all intentionally added substances > 0 ppm (> 0%) and impurities  $\geq$  100 ppm (0.01%) are assessed, classified, and assigned a GreenScreen score (that is, GreenScreen List Translator score or GreenScreen Benchmark score). The type of assessment required and the allowable scores for each certification level are specified in Table 1, Section 10.
- 9.2** GreenScreen Benchmark scores are required for the Silver and Gold levels. An Applicant may use valid Certified GreenScreen assessment(s) obtained either through public databases or through commissioning an assessment. New Certified GreenScreen assessments will need to be generated (typically by a Licensed GreenScreen Profiler) for all remaining substances.<sup>5</sup>
- 9.3** Polymers and Colorants
- 9.3.1** The requirement for polymeric materials to be assessed using GreenScreen for Safer Chemicals—Hazard Assessment Guidance will take effect prior to January 1, 2018. In the meantime, polymeric materials shall be assessed using the USEPA Safer Choice Program Criteria for Colorants, Polymers, Preservatives, and Related Chemicals (Section 5.8 of the Safer Choice Standard).
- 9.3.2** The requirement for colorants (pigments and dyes) to be assessed using GreenScreen for Safer Chemicals—Hazard Assessment Guidance will take effect prior to January 1, 2019. In the meantime, colorants shall be assessed using the USEPA Safer Choice Program Criteria for Colorants, Polymers, Preservatives, and Related Chemicals (Section 5.8 of the Safer Choice Standard).
- 9.3.3** When using the USEPA Safer Choice Program Criteria, all polymers and/or colorants must meet the “USEPA Safer Choice Acceptable” designation.

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<sup>5</sup> Authorized assessments generated by Authorized GreenScreen Practitioners and upgraded to Certified assessments through the GreenScreen Verification Program qualify for use in the GreenScreen Certified™ program.

## 10. CERTIFICATION LEVELS

Table 1 summarizes the requirements for each Certification Level (Bronze, Silver, and Gold) of the GreenScreen Certified Standard for Textile Chemicals.

TABLE 1. Summary of the Requirements for Each Certification Level of the GreenScreen Certified Standard for Textile Chemicals

| CERTIFICATION LEVEL | REQUIREMENTS   |
|---------------------|--|
| Bronze              | <ol style="list-style-type: none"> <li>1. All intentionally added substances &gt; 0 ppm (&gt; 0%) and impurities ≥ 100 ppm (0.01%) in a product formulation:               <ol style="list-style-type: none"> <li>a. meet ZDHC Group B MRSL; and</li> <li>b. do not have a GreenScreen List Translator score of LT-1.<sup>6</sup></li> </ol> </li> </ol>   |
| Silver              | <ol style="list-style-type: none"> <li>1. All intentionally added substances &gt; 0 ppm (&gt; 0%) and impurities ≥ 100 ppm (0.01%) in a product formulation:               <ol style="list-style-type: none"> <li>a. meet ZDHC Group B MRSL;</li> <li>b. are evaluated using the GreenScreen® for Safer Chemicals method;<sup>7</sup> and</li> <li>c. are characterized as GreenScreen Benchmark-2, -3, or -4;<sup>8</sup> and</li> </ol> </li> <li>2. A percent by weight distribution of GreenScreen Benchmark scores for product formulations shall be available upon request from a customer.</li> </ol> |
| Gold                | <ol style="list-style-type: none"> <li>1. All intentionally added substances &gt; 0 ppm (&gt; 0%) and impurities ≥ 100 ppm (0.01%) in a product formulation:               <ol style="list-style-type: none"> <li>a. meet ZDHC Group B MRSL;</li> <li>b. are evaluated using the GreenScreen® for Safer Chemicals method;<sup>7</sup> and</li> <li>c. are characterized as GreenScreen Benchmark-3, or -4.<sup>8</sup></li> </ol> </li> </ol>  |

6 Products may contain LT-P1s, LT-UNKs, or NoGSLTs and still meet Bronze.

7 Note that polymers or colorants shall be assessed using the USEPA Safer Choice Standard and must meet the “USEPA Safer Choice Acceptable” designation.

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

## 11. VERIFICATION AND LICENSING

A Verification Summary Report is required (see Section 7) and must be submitted to Clean Production Action by the Applicant in order to be awarded certification and a license to use the Bronze, Silver, or Gold GreenScreen Certified Certification Mark on products and marketing materials. See Section 10—Certification Levels for the requirements for certification.

A certificate for a certified product (or products) is issued by Clean Production Action after Verification is complete, a License Agreement is executed, and the license fee paid. Unless otherwise specified or requested by the Applicant, multiple products will be listed on the same Bronze-, Silver-, or Gold-level certificate.

## 12. CERTIFICATION AND LABELING REQUIREMENTS

### 12.1 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.

### 12.2 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 Certification Level (Bronze, Silver, or Gold) that 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.

### 12.3 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.

### 12.4 Duration of Certification

Certificates are valid for the specific version of the Standard to which they are applied. GreenScreen Certified Standard for Textile Chemicals Version 1 will be in effect for a minimum of three years from the date of this publication. Upon release of the new version certificate holders will have nine months to comply with the new version. Certificate holders will be notified nine months in advance of the release of a new version of the Standard.

## 13. ALTERNATE CERTIFICATION PROCESS

For Applicants to the GreenScreen Certified Standard for Textile Chemicals, an alternate review of compliance to the Certification Standard, as specified below, is available until December 31, 2017. See Figure 2 below for steps in the Alternate Process. Clean Production Action will perform the verification and, if requirements and conditions are met, will issue a Certificate and License to use the GreenScreen Certified Certification Mark(s) on all qualified product(s).

The Applicant is not required to submit a Verification Summary Report to Clean Production Action for the Alternate Certification Process. Rather, the Applicant must provide Clean Production Action with a signed Product Inventory Form that meets the following requirements for the desired certification level:

### 13.1 BRONZE

**13.1.1** All substances present at or above the applicable inventory thresholds described in Section 6 are listed.

**13.1.2** For each substance in the product inventory, the Applicant shall include chemical name, CASRN, function within product, weight percent in the product, and when available, trade name and supplier name (of trade named chemicals). See Section 7.5 for additional required information.

- To streamline the verification process, an Applicant may submit GreenScreen List Translator score(s).
- Attestation from a third-party GreenScreen Certification Service Provider that the product meets the ZDHC Group B MRSL may be provided to streamline the verification process.

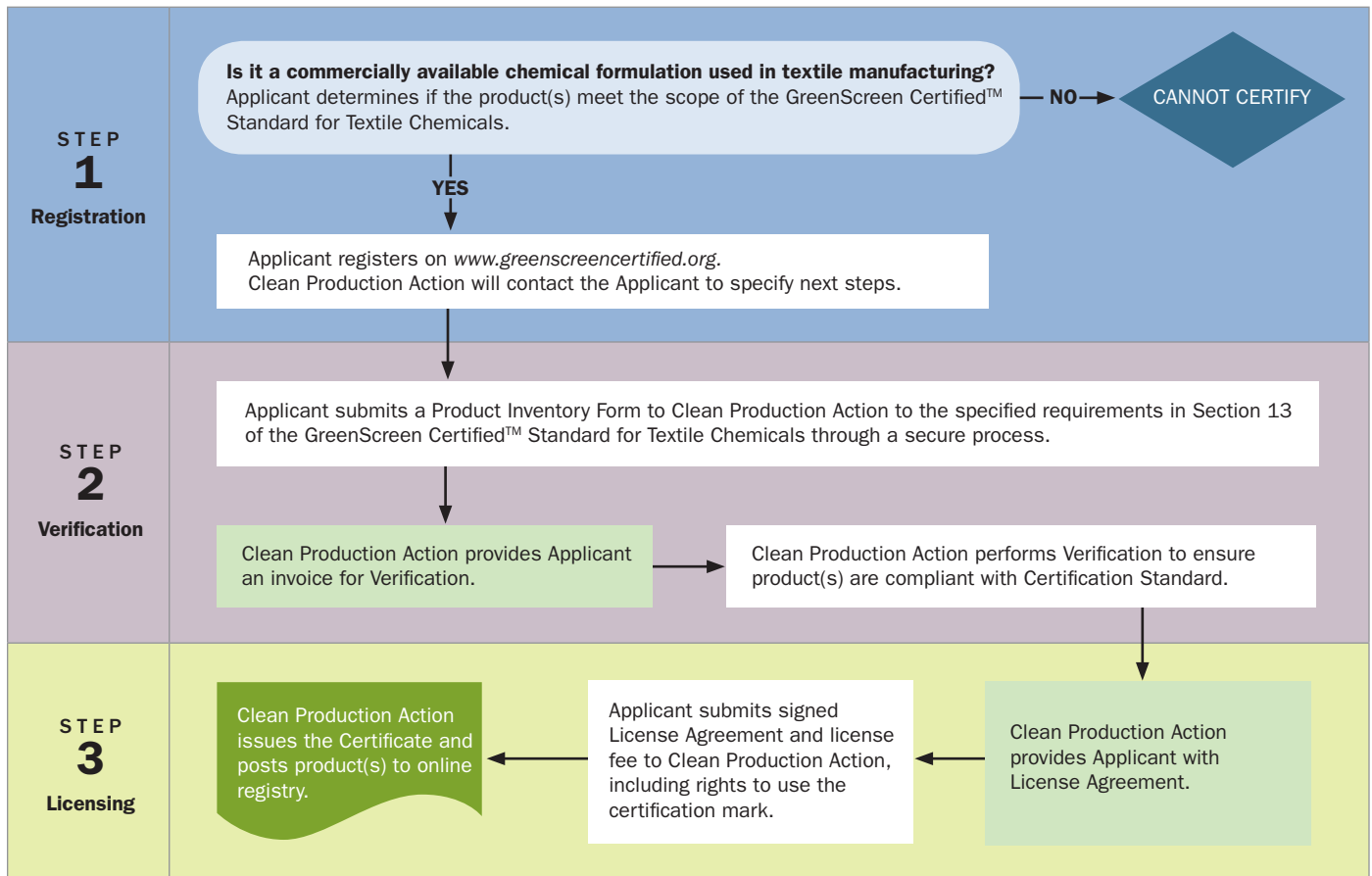
### 13.2 SILVER OR GOLD

**13.2.1** All substances present at or above the applicable inventory thresholds described in Section 6 are listed.

**13.2.2** For each substance in the Product Inventory Form, the Applicant shall include chemical name, CASRN, function within product, weight percent in the product, and GreenScreen Benchmark score. For qualifying polymers and/or colorants, the Applicant shall state whether the substance is “USEPA Safer Choice Acceptable.” See the Product Inventory Form for additional required information.

**13.2.3** Attestation from a third-party GreenScreen Certification Service Provider that the product meets the ZDHC Group B MRSL may be provided to streamline the verification process.

FIGURE 2. **Process Overview for the Alternate Certification Process**









# Standard for Textile Chemicals

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