

The following Green Seal standards underwent non-substantive changes on July 26th, 2023.

- GS-11, Edition 4.0, Paints, Coatings, Stains, and Sealers
- GS-37, Edition 7.8, Cleaning Products for Industrial and Institutional Use
- GS-48, Edition 1.7, Laundry Care Products for Household Use
- GS-51, Edition 1.8, Laundry Care Products for Industrial and Institutional Use
- GS-52, Edition 2.7, Specialty Cleaning Products for Household use
- GS-53, Edition 2.8, Specialty Cleaning Products for Industrial and Institutional Use
- GS-60, Edition 1.0, Plastic Trash Bags and Can Liners

Additional Non-Substantive Changes:

• All Standards - Removal of Green Seal Address

Introduction

Corrections and Clarifications Reports (CCRs) are Green Seal's public record of all non-substantive changes made to Green Seal standards. CCRs do not undergo a public comment process due to their low impact on the standards. Substantive changes, which may raise or lower the bar of health and environmental leadership, are required to undergo Green Seal's rigorous stakeholder engagement process, including a 30-day public comment period.

Publication Schedule of CCRs

Corrections and Clarifications Reports are released on a quarterly basis on the last Friday of the month (currently, January, April, July, and October). These reports are available on Green Seal's website.¹

Edition Numbers of Standards

Although the text of a standard is clarified or corrected, the edition number of a standard (e.g., GS-8 Standard, <u>Edition 5.5</u>) remains the same after a Corrections and Clarifications Report.

Our Stakeholder-Based Process

Although non-substantive changes are not published for public comment, Green Seal remains open to input from our stakeholders on all issues regarding the text of standards. We encourage any interested party or individual to submit feedback on Green Seal standards via Green Seal's website contact form, email, or phone.

Clarifications

Green Seal periodically identifies problems with the text of a standard. In certain cases, a requirement may be worded in a way that leads to misinterpretations. In these cases, Green Seal clarifies the text of the standard via text deletions or text additions. The intent and reasoning behind clarifications is summarized in Corrections and Clarifications Reports.

Corrections

Green Seal standards undergo scheduled quality reviews during which errors may be noted. Examples of errors include typos, grammatical errors, misplaced text, omissions in information, and inconsistencies within a standard. The background of the error and the explanation for the correction is summarized in Corrections and Clarifications Reports.

Information about the Red-lined Text within CCRs

CCRs use formatting that is consistent with Green Seal's Standard Revision Proposals to depict the differences between the previous edition of a standard and the current edition.

- Text Boxes are used to highlight the excerpts of standard content.
- Red font is used to show that text has been added to a standard.
- Text with strikethrough lines show that text has deleted from a standard.

¹ Green Seal Standards Documents Library, <u>http://www.greenseal.org/green-seal-standards/library</u>

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Standard for Paints, Coatings, Stains and Sealers, GS-11

1. Interior Products, VOC Emissions Evaluations & Annex A, Definitions (Normative) - Correction

In the September 2021 revision of the GS-11 Standard for Paints, Coatings, Stains, and Sealers, Section 3.6 was added for VOC Emission Evaluations. The intent of this revision was to align with the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) Certification low-emitting materials credit. As a result, a footnote was added to describe the definition of an interior product; however, the standard already contained a definition of an interior product, which should have been amended at the time of the revision to better align with the LEED definition. In order to harmonize these descriptions, the footnote in Section 3.6 has been removed, and the language used by LEED has been added to the definition of an interior product in Annex A.

Updates to the Text

3.6 VOCs Emissions Evaluation. Products intended for *interior* application²⁵ shall be tested according to, and meet the emissions limits²⁶ specified in, the California Department of Public Health (CDPH) Standard Method v1.2 (2017).²⁷ As specified within the CDPH Standard Method, product specimens must undergo testing for the full 14-day (336-hour) period.

Products marketed for use in school classrooms must be evaluated using the classroom scenario. Products marketed for use in other spaces must be evaluated using the default private office scenario.

²⁵ Products designed or marketed for application to substrates within the building's waterproofing membrane.

²⁶ See Appendix 3 for the maximum allowable concentrations, specified in the CDPH Standard Method v1.2.

²⁷ https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/CDPH%20Document%20L ibrary/CDPHIAQ_StandardMethod_V1_2_2017_ADA.pdf.

Interior. An interior product is designed, formulated and intended for application on indoor surfaces within the building's waterproofing membrane. If a product is multipurpose (i.e., for interior and exterior application), the stricter requirement applies, and the product must meet all the appropriate performance criteria.

Final Text

3.6 VOCs Emissions Evaluation. Products intended for *interior* application shall be tested according to, and meet the emissions limits²⁶ specified in, the California Department of Public Health (CDPH) Standard Method v1.2 (2017).²⁷ As specified within the CDPH Standard Method, product specimens must undergo testing for the full 14-day (336-hour) period.

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Interior. An interior product is designed, formulated and intended for application on indoor surfaces within the building's waterproofing membrane. If a product is multipurpose (i.e., for interior and exterior application), the stricter requirement applies, and the product must meet all the appropriate performance criteria.

2. Acronym Additions, List of Acronyms and Abbreviations, Correction

Throughout GS-11, the abbreviations 'oz' (short for ounce(s)) and 'psi' (short for pounds per square inch) are used multiple times but are not identified. For clarity, these abbreviations and their meanings have been added to the List of Acronyms and Abbreviations at the beginning of the Standard.

Updates to the Text

ISO. International Organization for Standardization
oz. Ounce(s)
ppm. Parts Per Million
psi. Pounds Per Square Inch
SCAQMD. South Coast Air Quality Management District

Final Text

ISO. International Organization for Standardizationoz. Ounce(s)ppm. Parts Per Millionpsi. Pounds Per Square InchSCAQMD. South Coast Air Quality Management District

3. Halogenated Organic Solvent Definition, Prohibited Ingredients & Annex A, Definitions (Normative) – Clarification

In October 2015, GS-11 and GS-47 were merged to form GS-11, Edition 3.2. This merger included the addition of the term 'halogenated solvents.' In the final version of the standard, only the term "solvent" was italicized and given a definition. However, the intent of the standard was to align with already existing standards that included a definition for 'halogenated organic solvents'.

The term 'halogenated solvent' in GS-11 has therefore been replaced by 'halogenated organic solvent' in the subsection on prohibited ingredients and its definition has been added to Annex A. Any references to 'halogenated organic solvents' throughout the text have been italicized.

Updates to Text

- **3.2 Prohibited Ingredients.** The product shall not contain the following ingredients:
 - Halogenated solvents Halogenated organic solvents
 - o Additionally, methylene chloride13 and perchloroethylene14 shall not be *intentionally added* to the product.

Exemption: For *lacquers* intended for metal substrates only, PCBTF (parachlorobenzotrifluoride, CAS#98-56-6), a *halogenated solvent halogenated organic solvent*, is allowed at levels that do not exceed 10% by weight in the product.

ANNEX A- Definitions (Normative)

Floor Coating. A clear, transparent, or opaque coating that is intended to provide long-term durability on general-purpose flooring, such as concrete, masonry, tile, and terrazzo, typically found on floor surfaces in hallways, lobbies, stores, garages, or steps. For the purposes of this standard, floor coatings do not include finishes intended for wood floors, floor care products designed to be periodically removed and reapplied, or products designed to meet the extreme environments in the definition for industrial maintenance coating.

Halogenated Organic Solvent. An organic *solvent* containing halogens, including, but not limited to, fluorine, chlorine, bromine, astatine, and iodine.

Hazardous Air Pollutant. Any compound listed as a hazardous air pollutant by U.S. EPA in the Clean Air Act, Section 112(b) (1). Ethylene glycols are included on this list, as of late 2015, while propylene glycols are not.

Final Text

- **3.2 Prohibited Ingredients.** The product shall not contain the following ingredients:
 - Halogenated organic solvents
 - o Additionally, methylene chloride13 and perchloroethylene14 shall not be *intentionally added* to the product.

Exemption: For *lacquers* intended for metal substrates only, PCBTF (parachlorobenzotrifluoride, CAS# 98-56-6), a *halogenated organic solvent*, is allowed at levels that do not exceed 10% by weight in the product.

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Halogenated Organic Solvent. An organic *solvent* containing halogens, including, but not limited to, fluorine, chlorine, bromine, astatine, and iodine.

Hazardous Air Pollutant. Any compound listed as a hazardous air pollutant by U.S. EPA in

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the Clean Air Act, Section 112(b) (1). Ethylene glycols are included on this list, as of late 2015, while propylene glycols are not.

Standard for Cleaning Products for Industrial & Institutional Use, GS-37

1. Test Name Change, Acronyms & Abbreviations, Chamber Testing, Correction

In 2011, the GreenGuard Environmental Institute (GEI) was purchased by UL Ecologo and several of its certifications were renamed to streamline the transition. As a result, there are several references in GS-37 to the GreenGuard Children and Schools Certification for Cleaners and Cleaning Maintenance Products and Systems, which was renamed in 2013 to GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions from Cleaners and Cleaning Maintenance Systems Using Dynamic Environmental Chambers. The acronym for GreenGuard has been updated as well as references to GreenGuard in Subsection 3.11.2.

Updates to Text

Acronyms and Abbreviations

GREENGUARD Gold. GREENGUARD Environmental Institute an industry independent, non-profit organization Certification from UL EcoLogo focusing on chemical emission rates. (www.greenguard.org https://www.ul.com/services/ul-greenguard-certification)

3.11.2 Chamber Testing. A *product as used* shall meet the inhalation criteria and as tested according to the method used for the GREENGUARD Children and Schools Certification for Cleaners and Cleaning Maintenance Products and Systems GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions from Cleaners And Cleaning Maintenance Systems Using Dynamic Environmental Chambers, which includes office, school, and restroom models. (Also called the GREENGUARD Standard Method for Measuring and Evaluating Chemical Emissions from Cleaners Using Dynamic Environmental Cleaning Maintenance Systems Using Dynamic Environmental Cleaning Maintenance

Final Text

Acronyms and Abbreviations

GREENGUARD Gold. Certification from UL EcoLogo focusing on chemical emission rates. (https://www.ul.com/services/ul-greenguard-certification)

3.11.2 Chamber Testing. A *product as used* shall meet the inhalation criteria and as tested according to the method used for the GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions from Cleaners and Cleaning Maintenance Systems Using Dynamic Environmental Chambers, which includes office, school, and restroom models.

Standard for Laundry Care Products for Household Use, GS-48

1. Organization Name Update, Acronyms & Abbreviations, Softening Performance, & Footnote 15, Clarification

In February of 2018, the Consumer Specialty Products Association (also known as the CSPA) rebranded as the Household & Commercial Products Association (also known as the HCPA). Green Seal references the CSPA testing methods for evaluating laundry softener products throughout GS-48.

References to the Consumer Specialty Products Association and/or CSPA has been replaced with the Household & Commercial Products Association and/or HCPA.

Updates to Text

CFU. Colony Forming Unit.
CSPA. Consumer Specialty Products Association.
DFG. German Deutsche Forschungsgemeinschaft.
DOC. Dissolved Organic Carbon.
EN. European Standard.
EPA. United States Environmental Protection Agency.
FDA. United States Food and Drug Administration.
FIFRA. Federal Insecticide, Fungicide, and Rodenticide Act.
GHS. Globally Harmonized System for the Classification and Labelling of Chemicals.
GMM. Genetically Modified Microorganism.
HCPA. Household & Commercial Products Association
IFRA. International Fragrance Association.
INCI. International Nomenclature of Cosmetic Ingredients.

2.1.3 Softening Performance. *Softening products* shall demonstrate that they perform equivalent to or better than an appropriate *benchmark product* in their category on manufacturer recommended *laundry* (e.g., cotton, polyester, or cotton/polyester blend) using the Consumer Specialty Products Association (CSPA) Household & Commercial Products Association (HCPA) DCC-13 series evaluating softness (13B), water absorbency (13D), and static control (13F, using one of described evaluation methods).

6.6 *Fragrance and Allergen Labeling. The product label shall declare if a *fragrance* has been added or if no *fragrance* has been added and shall also indicate any *allergen components* present in the product at 0.01% or more (e.g., "Contains *allergen* [allergen's INCI name]"). Where an INCI name does not exist, alternative nomenclature may be used.¹⁵

¹⁵ Alternative nomenclature may include International Union of Pure and Applied Chemistry (IUPAC) name, CAS name, CSPA HCPA Dictionary name, and or the common chemical name.

Final Text

CFU. Colony Forming Unit.

DFG. German Deutsche Forschungsgemeinschaft.

DOC. Dissolved Organic Carbon.

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EN. European Standard.
EPA. United States Environmental Protection Agency.
FDA. United States Food and Drug Administration.
FIFRA. Federal Insecticide, Fungicide, and Rodenticide Act.
GHS. Globally Harmonized System for the Classification and Labelling of Chemicals.
GMM. Genetically Modified Microorganism.
HCPA. Household & Commercial Products Association
IFRA. International Fragrance Association.
INCI. International Nomenclature of Cosmetic Ingredients.

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6.6 *Fragrance and Allergen Labeling. The product label shall declare if a *fragrance* has been added or if no *fragrance* has been added and shall also indicate any *allergen components* present in the product at 0.01% or more (e.g., "Contains *allergen* [allergen's INCI name]"). Where an INCI name does not exist, alternative nomenclature may be used.¹⁵

¹⁵ Alternative nomenclature may include International Union of Pure and Applied Chemistry (IUPAC) name, CAS name, HCPA Dictionary name, and or the common chemical name.

Standard for Laundry Care Products for Industrial & Institutional Use, GS-51

1. Organization Name Update, Softening Performance, & Footnote 17, Clarification

In February of 2018, the Consumer Specialty Products Association (also known as the CSPA) rebranded as the Household & Commercial Products Association (also known as the HCPA). Green Seal references the CSPA testing methods for evaluating laundry softener products throughout GS-51.

References to the Consumer Specialty Products Association and/or CSPA has been replaced with the Household & Commercial Products Association and/or HCPA.

Updates to Text

2.1.3 Softening Performance. Products sold solely as *softening products* shall demonstrate performance equivalent to or better than an appropriate *benchmark product* in their category on manufacturer recommended *laundry* (e.g., cotton, polyester, or cotton/polyester blend) using the Consumer Specialty Products Association (CSPA) Household & Commercial Products Association (HCPA) DCC-13 series evaluating softness (13B), water absorbency (13D), and static control (13F, using one of described evaluation methods).

6.7 *Fragrance and Allergen Labeling. The product label and SDS shall declare if a *fragrance* has been added or if no *fragrance* has been added. The product label and SDS shall also indicate if any *allergen components* are present in the product at 0.01% or more (e.g., "Contains *allergen* [allergen's INCI name]"). Where an INCI name does not exist, alternative nomenclature may be used.¹⁷

¹⁷ Alternative nomenclature may include International Union of Pure and Applied Chemistry (IUPAC) name, CAS name, CSPA HCPA Dictionary name, and or the common chemical name.

Final Text

2.1.3 Softening Performance. Products sold solely as *softening products* shall demonstrate performance equivalent to or better than an appropriate *benchmark product* in their category on manufacturer recommended *laundry* (e.g., cotton, polyester, or cotton/polyester blend) using the Household & Commercial Products Association (HCPA) DCC-13 series evaluating softness (13B), water absorbency (13D), and static control (13F, using one of described evaluation methods).

6.7 *Fragrance and Allergen Labeling. The product label and SDS shall declare if a *fragrance* has been added or if no *fragrance* has been added. The product label and SDS shall also indicate if any *allergen components* are present in the product at 0.01% or more (e.g., "Contains *allergen* [allergen's INCI name]"). Where an INCI name does not exist, alternative nomenclature may be used.¹⁷

¹⁷ Alternative nomenclature may include International Union of Pure and Applied Chemistry (IUPAC) name, CAS name, HCPA Dictionary name, and or the common chemical name.

Standard for Specialty Cleaning Products for Household Use, GS-52

1. Test Name Change, Acronyms & Abbreviations, Chamber Testing, Correction

In 2011, the GreenGuard Environmental Institute (GEI) was purchased by UL Ecologo and several of its certifications were renamed to streamline the transition. As a result, there are several references in GS-52 to the GreenGuard Children and Schools Certification for Cleaners and Cleaning Maintenance Products and Systems, which was renamed in 2013 to GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions from Cleaners and Cleaning Maintenance Systems Using Dynamic Environmental Chambers. The acronym for GreenGuard has been updated as well as references to GreenGuard in Subsection 3.14.2.

Updates to the Text

Acronyms and Abbreviations

GREENGUARD Gold. GREENGUARD Environmental Institute an industry independent, non-profit organization Certification from UL EcoLogo focusing on chemical emission rates. (www.greenguard.org https://www.ul.com/services/ul-greenguard-certification)

3.14.2 Chamber Testing. A *product as used* shall be tested according to the method used for the GREENGUARD Children and Schools Certification for Cleaners and Cleaning Maintenance Products and Systems (also called the GREENGUARD Standard Method for Measuring and Evaluating Chemical Emissions from Cleaners and Cleaning Maintenance Systems Using Dynamic Environmental Chambers) GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions from Cleaners And Cleaning Maintenance Systems Using Dynamic Environmental Chambers and meet the inhalation toxicity criteria in the method (noted in the table referencing Green Seal Standard GS-37).

Final Text

Acronyms and Abbreviations

GREENGUARD Gold. Certification from UL EcoLogo focusing on chemical emission rates. (https://www.ul.com/services/ul-greenguard-certification)

3.14.2 Chamber Testing. A product as used shall be tested according to the method used for the GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions from Cleaners And Cleaning Maintenance Systems Using Dynamic Environmental Chambers and meet the inhalation toxicity criteria in the method (noted in the table referencing Green Seal Standard GS-37).

Standard for Specialty Cleaning Products for Industrial & Institutional Use, GS-53

1. Test Name Change, Acronyms & Abbreviations, Chamber Testing, Correction

In 2011, the GreenGuard Environmental Institute (GEI) was purchased by UL Ecologo and several of its certifications were renamed in subsequent years. As a result, there are several references in GS-53 to the GreenGuard Children and Schools Certification for Cleaners and Cleaning Maintenance Products and Systems, which was renamed in 2013 to GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions from Cleaners and Cleaning Maintenance Systems Using Dynamic Environmental Chambers. The acronym for GreenGuard has been updated as well as references to GreenGuard in Subsection 3.14.2.

Updates to Text

Acronyms and Abbreviations

GREENGUARD Gold. GREENGUARD Environmental Institute an industry independent, non-profit organization Certification from UL EcoLogo focusing on chemical emission rates. (www.greenguard.org https://www.ul.com/services/ul-greenguard-certification)

3.14.2 Chamber Testing. A product as used shall be tested according to the method used for the GREENGUARD Children and Schools Certification for Cleaners and Cleaning Maintenance Products and Systems (also called the GREENGUARD Standard Method for Measuring and Evaluating Chemical Emissions from Cleaners and Cleaning Maintenance Systems Using Dynamic Environmental Chambers) GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions From Cleaners And Cleaning Maintenance Systems Using Dynamic Environmental Chambers and meet the inhalation toxicity criteria in the method (noted in the table referencing Green Seal Standard GS-37).

Final Text

Acronyms and Abbreviations

GREENGUARD Gold. Certification from UL EcoLogo focusing on chemical emission rates. (https://www.ul.com/services/ul-greenguard-certification)

3.14.2 Chamber Testing. A product as used shall be tested according to the method used for the GREENGUARD Gold Certification Program Method for Measuring and Evaluating Chemical Emissions From Cleaners And Cleaning Maintenance Systems Using Dynamic Environmental Chambers and meet the inhalation toxicity criteria in the method (noted in the table referencing Green Seal Standard GS-37).

Standard for Plastic Trash Bags and Can Liners, GS-60

1. Subsection Retitle, Product-Specific Sustainability Requirements, Clarification

Since GS-60's public issuance on April 6, 2023, Green Seal has received stakeholder feedback that the title of Section 3.1, Plastic Efficiency Requirements could more accurately represent what a manufacturer must do to comply with the requirement. The title has been updated to "Maximum Allowed Virgin Material" to increase clarity for the reader on what is required to achieve certification.

Updates to Text

3.1 Plastic Efficiency Requirements Maximum Allowed Virgin Material. Products that use virgin material shall not exceed the amount of virgin material per liner, as outlined in the table below:

Final Text

3.1 Maximum Allowed Virgin Material. Products that use virgin material shall not exceed the amount of virgin material per liner, as outlined in the table below:

All Standards

1. Removal of Green Seal Address, Cover & Second Page, Editorial Correction

All Green Seal Standards have had the address and phone number information removed from the standard's cover and second pages. This information is available on Green Seal's website.

Updates to Text

Cover Page:

Green Seal, Inc. • 1717 K St NW, Suite 900 • Washington, DC USA 20036-5525 (202) 872-6400 • www.greenseal.org

Second Page:

Green Seal offers certification of products and services in conformance with its standards. For additional information on Green Seal and contact information, visit greenseal.org. or any of its programs, contact:

Green Seal 1717 K Street, NW, Suite 900 Washington, DC 20006 (202) 872-6400 greenseal@greenseal.org greenseal.org

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